VACRON
ADVANCES IN SECURITY SOLUTIONS

4CH H.264
Digital Video Recorder

USER MANUAL

2013 APR V1.2

optional

WARNING

- Do not expose the DVR under the sunlight, heat or wet environment while installation. As it could decrease the performance of DVR and damage the machine.
- Do not touch the power plug or case with wet hands as this could result electric shock.
- Do not forcedly bend or put heavy object on power cable as this could result in injury to personal or equipment.
- Do not operate with damaged power cord or loose electrical outlet as this could result in electric shock or accident.
- Please use individual power instead of share electrical outlets with other electrical equipment as this could result in damage or accident.
- Do not attempt to service this DVR by yourself as it may expose you to dangerous voltage or other hazards. Please refer all service to the qualified servicing distributor.
- Do not open the covers or insert any object into DVR.

CAUTION

- Do not place the machine on an uneven surface or it would decrease the DVR efficiency or malfunction.
- Avoid any shock or bumping of the DVR while recording. Improper handling could damage the system.

CAUTION

Make sure the voltage selector switch is set to appropriate setting before plug in!

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1. Specification

Video System		NTSC	PAL
Operating System		Embedded Linux	
VGA Output		D-SUB 15P VGA	
Video Input		4 x (1Vp-p 75R) BNC	
Audio Input		4 x RCA（CH1~CH4）	
Video Output		1 x (Monitor Out) BNC	
Audio Output		1 x RCA	
OSD Interface		GUI interface / Multi-Language (English / Traditional Chinese / Others)	
Display Frame		240 fields/s (4x60 fields/s)	200 fields/s (4x50 fields/s)
Recording Frame		30fps (CIF/HD1/D1) / 20fps(1.5D1)	25fps (CIF/HD1/D1) / 16fps(1.5D1)
Playback Frame		30fps (CIF/HD1/D1) / 20fps(1.5D1)	25fps (CIF/HD1/D1) / 16fps(1.5D1)
Display Mode		Single / Quad / Auto Switch	
Pentaplex Mode		Recording / Playback / Network / Mobile Phone Surveillance	
Resolution	Display	720x480	720x576
	Recording	360x240 @CIF	360x288 @CIF
		720x240 @HD1	720x288 @HD1
		720x480 @D1	720x576 @D1
		960x480 @1.5D1	960x576 @1.5D1
Compression Format		H.264	
HDD Management		SATA HDD x 1 (No HDD Included)	
Backup Device		Host USB 2.0	
Searching	Mode	Time/Date, Event	
	Full Screen	Yes	
Alarm Input / Output		4 x Input / 1 x Output	
Key / LED		17 Keys (Max.) / 2 LEDs	
Motion Detection(MD)		Yes	
Video Loss Detection		Yes	
Switching		Yes	
Buzzer		Yes	
Brightness Setting		Yes	
Contrast		Yes	
XGA Output		Adjustable, 1440p x 900p (max.)	
HD Output		1080p30 / 720p60	
Mouse		Yes (USB 2.0)	
P/T/Z Control		Pelco-D / Pelco-P (RS-485)	
Watchdog		Auto Power Recovery	
Network		H.264 (STATIC，DHCP，PPPoE)	
Mobile Phone		Windows Mobile / Symbian / iPhone / Android / Blackberry	
Power supply		DC 12V / 3A (AC100V~240V 50/60HZ)	
Dimension		315mm x 222mm x 68mm (W x D x H)	
Operating Temperature		0℃~ 46℃	

2. Structure of Product

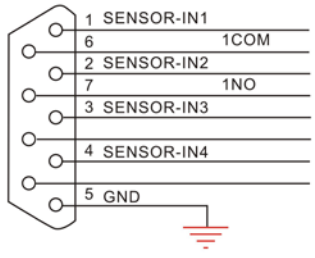
■ Front Panel

POWER	Power Indicator	The LED lights on when power on.
HDD	HDD Indicator	The LED lights on when the HDD is written.
	Channel 1	Under the live viewing mode / playback mode channel 1 display.
	Channel 2	Under the live viewing mode / playback mode channel 2 display.
	Channel 3	Under the live viewing mode / playback mode channel 3 display.
	Channel 4	Under the live viewing mode / playback mode channel 4 display.
	Quad	Under the live viewing mode / playback mode Quad display.
	Menu	Under the live viewing mode, press MENU to enter the main menu.
		Under the menu mode, press MENU to go to the upper menu.
◄◄	Fast Rewind	Playback: x2 / x4 / x8 / x16 / x32 Multiple Speed.
►►	Fast Forward	Playback: x2 / x4 / x8 / x16 / x32 Multiple Speed.
►►I	Slow Forward	Playback: 1/2 / 1/4 / 1/8 Multiple Speed.
►I/II	Step	Under the playback mode, press Step button to enter Play Frame by Frame mode.
	Pause	Under the playback mode, press the button to pause the playback.
►	Play	Under the live viewing mode, press the Play button to enter the playback mode.
●/■	Manual Record	Press this button to start recording in live mode.
	Stop	Under the playback mode, press the button to stop the operation or go to upper menu.
▲	Up	To move up of the selection setting in menu.
▼	Down	To move down of the selection setting in menu.
◄	Left	To move left of the selection setting in menu.
►	Right	To move right of the selection setting in menu.
Enter	Enter	Press the Enter button to confirm the setup or go into sub-menu.
	USB 2.0 Port	USB Backup or Firmware Update.

■ Installation

1	Video In	1-4 CH Video Input (BNC)
2	Audio In	1-4 CH Audio Input
3	Video Out	1CH Video Output (BNC)
4	Audio Out	1CH Audio Output (RCA)
5	LAN	RJ-45 Network Connection
6	USB Mouse Port	2.0 USB Mouse
7	Alarm I/O	Alarm In/Out
8	XGA	PC Monitor Output
9	HD Output	1080p/ 720p resolution Output
10	E-SATA	Support external storage system and the Port Multipliers function
11	RS-485	For Speed Dome Use
12	DC12V	Power Input

■ Alarm I/O



Item
Point 1: CH1 sensor input.
Point 2: CH2 sensor input.
Point 3: CH3 sensor input.
Point 4: CH4 sensor input.
Point 5: ground.
Point 6: the first relay joint port.
Point 7: the first relay normal open.

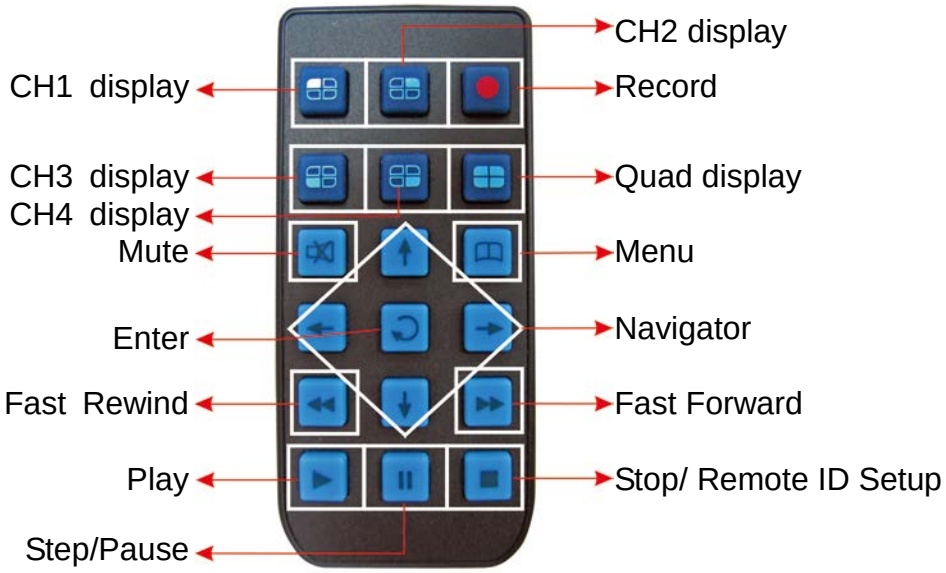
3. DVR Installation

- Connect the camera video output to the DVR video input port with BNC connectors.
  The camera install coaxial cable is suggested cat 6 or above.
- DVR Network installation
  Please connect DVR to HUB or router by using RJ-45 network cable and make sure the DVR network indicator LED is on.
  (Please refer to Network Setup for further network setting information of using static IP, PPPoE or DHCP.)
- Alarm Installation
  Please refer to Installation for external alarm I/O installation. Please refer to Alarm Setup.
- Speed Dome Installation
  This device can support 3 kinds of communication protocol (Pelco D, Pelco P & MIKAMI)
- Power Installation
  Please use the provided power cable and adaptor to connect the DVR (AC100V~AC240V). Please refer to Installation for connecting position. The DVR system will enter into live viewing mode when power is connected. Please refer to Display Setup - Live Viewing Mode for more information.

4. System Operation

There are 3 kinds of DVR control method: front panel, remote control and USB mouse.

- USB Mouse Operation
  1. Quick Menu: Right click the mouse button under the live viewing mode to go for enter into Quick Menu.
  2. Left click the mouse button under the main menu to go to the sub-select menu.
  3. Left click the mouse button under the select menu to go to the sub-menu.
  4. Use the mouse to change the setting.
  5. Please refer to Display Setup - PTZ Setup.
- Remote Control Operation
  Remote Control and front panel operation are the same; please refer to Front Panel and the reference table of the button as below.


CH2 display
CH1 display
Record
CH3 display
Quad display
CH4 display
Mute
Menu
Enter
Navigator
Fast Rewind
Fast Forward
Play
Stop/ Remote ID Setup
Step/Pause

■ Virtual Keyboard Operation

The text input of the virtual keyboard is as below:

Menu Operation	Front Panel & Remote Control Operation	Mouse Operation
Select character from virtual keyboard	[Up/Down/Left/Right]	[Move Cursor]
Keyin the select character	[Enter]	[Left Click]
Exit the virtual keyboard	[MENU]	[Left Click]out of selection area

Key Description of Virtual Keyboard	
←	Delete the previous character
123	Switch to text input
↵	Enter key. Save and exit the virtual keyboard
Other Keys	Character Keyin

■ Main Menu Operation

Main menu

Setup Operation	Front Panel & Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Menu	[Enter]	[Left Click]

■ Setup Operation

Setup

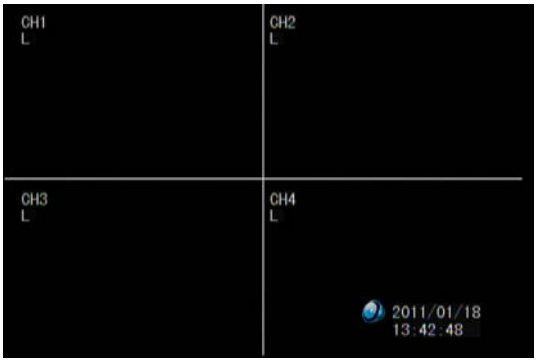
Setup Operation	Front Panel & Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Confirm Select Setting	[Enter]	[Left Click]
Change the Select Setting	[Left/Right]	[Left Click]

5. Display Setup

There are 3 kinds of screen display mode: Live, Auto Switching and PTZ. DVR.

- Live Viewing Mode

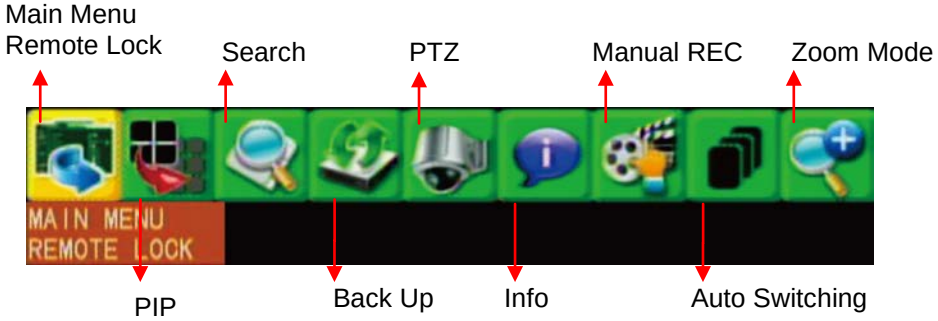
  The DVR will go to the live viewing mode after boot up. There are 5 different status icon:



●: Record
M: Motion Triggered
L: Video Loss
A: Alarm Triggered
: Sound on/off

Setup Operation	Front Panel&Remote Control	USB Mouse
Channel 1~4 Single Channel Display	[CH1~4]	Select one of channel [Double click left button]
4 Channel Split Display	[4 CH Split]	Under single channel [Double click left button]
Quick Menu	[MENU]	[Right]
Playback Mode	[Play]	[Right] QuickMenu
Start/Stop the Manual Record	[Record]	[Right] QuickMenu
Start/Stop the Auto Switching	Front Panel [Auto Switch] Remote Control [Auto Switch]	[Right] QuickMenu
Start/Stop Mute	Remote Control [Mute]	[Left] Left Click

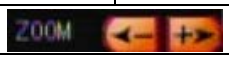
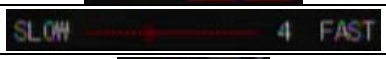
- Quick Menu



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Left/Right]	[Moving Cursor]
Enter the Select Item	[Up/Down]	[Moving Cursor]
Confirm the Select Item	[Enter]	[Left Click]
Exit	[MENU]	[Left Click] out of selection area

- PTZ

  Please set the speed dome properly before control PTZ. Please refer to PTZ Setup.

Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Zoom +,-		
Focus, +-		
Iris, +-		
Adjust Movement Speed		
PTZ Up / Down / Left / Right		
Start/Stop Auto Tracking		
Exit	[Right click] or [Left click]	

- Playback Operation

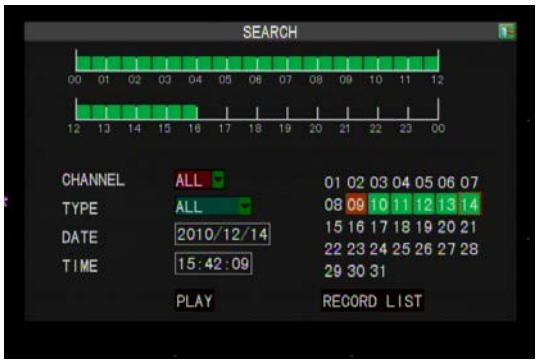
Setup Operation	Front Panel & Remote Control	USB Mouse
Fast Rewind	[Fast Rewind]	

Fast Forward	[Fast Forward]	
Step Forward	[StepForward]	
Step/Pause	[Step/Pause]	
Play 1x	[Play]	
Stop	[Stop]	
Digital Zoon	None	Drag by Left Click
Derived Image	None	[Left click]
1~4 Single Channel Display	[1~4 Channel]	Select Channel [Double left click]
4 split Display	[4 split]	Under single channel [Double left click]

- Auto Switching
  1. Auto switch starts from order CH1~CH4, 4 split channel.
  2. Press the button again to stop the function.

6. Search

In Live mode, use Play button in the front panel/remote controller or right clicking the mouse to switch to the Search function.



Setup Operation	Front Panel & Remote Controller	USB Mouse
Search	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving Cursor]
Select Dates	[Up/Down/Left/Right]	[Moving Cursor]
Playback	[Enter]	[Left Click]
Return to Upper Menu	[MENU]	[Right click] or [Left click]

- No data: no color, data of alarm trigger: red color, normal record data: green color.
- Select the first half of hour frame under the date, the playback will start from 00 mins: 00 sec. Select the second half of hour frame under the date, the playback will start from 30mins:00sec. If there is no data on the date, please try to search from record list.

- Select any of 4 channels to playback.

- Record List

Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click]
First Page		
Previous Page		
Next Page		
Last Page		
Mark all the events in this page		
BackUp		

- List all of recording data and click on one of record data to playback.
- Backup
  Please click “BACKUP” to backup the selecting file to USB memory stick.

7. Main Menu

Setup Operation	Front Panel & Remote Controller	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Exit Main Menu	[MENU]	[Right click] or [Left click]

7.1 Camera Setup

- Channel
  Select one channel to set. Use CopyButton to copy present settings to other channels.
- Camera Title
  Set the title of camera. Key in by using virtual keyboard.
- Title Position
  Set the title position. Set: Top Left, Top Right, Bottom Left, Bottom Right and Off.
- Display
  Display the channel, set: On/Off
- Camera Color Setup

- Hue: 0~50
- Brightness: 0~50
- Contrast: 0~50
- Saturation: 0~50

■ PTZ Setting

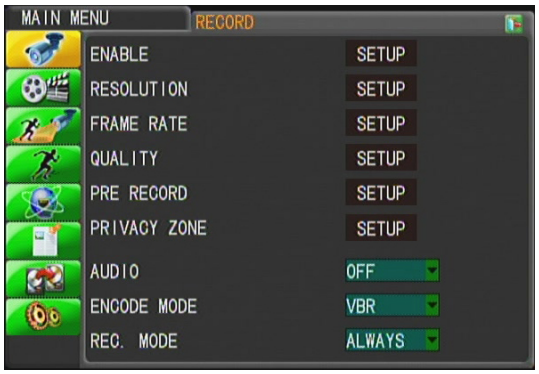
- ◆ Type
  Speed dome model type. Set: PTC-301, PTC-203ST, FUM 626, JG_QG988, FUM 622SD, FUM 628 or off. Please select the correct communication protocol if you enable this setting.
- ◆ Protocol
  Speed dome protocol. Set: PELCO P, PELCO D, MIKAMI or off.
- ◆ Address
  Speed dome address. Set: 0~255
- ◆ Baud Rate
  Speed dome baud rate. Set: 1200, 2400, 4800, 9600, 19200.
- ◆ Tilt Opposite
  Set speed dome image upside down. Set: On/Off
- ◆ Preset

Setup Operation	Front Panel & Remote Controller	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Zoom +,-		
Focus +,-		
Iris +,-		
Adjust Move Speed		
Set PTZ Up/Down/Left/Right		
Start/Stop Auto Tracking		
Number Preset Setting		
This function is preset 95 enter the menu		

Save Preset Setting	
Clear Preset Setting	
Clear All Preset Setting	
Return to Upper Menu	[Right click] or [Left click]

- Buzzer Duration
  The buzzer ON duration when video loss.
- Alarm Relay Duration
  The Relay ON duration when video loss.
- Time Display
  Display the time in LIVE mode. Values: ON/OFF.

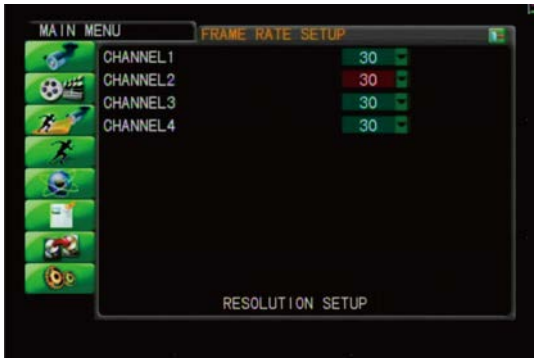
7.2 Record Setup



- Record Enable Setup
  On/Off the channel.
  Watermark: Insert the words of watermark.

- Resolution Setup
  NTSC Recording Resolution: 720x480 / 720x240 / 360x240 / 960x480.
  PAL Recording Resolution: 720x576 / 720x288 / 360x288 / 960x576.

- Frame Rate Setup
  Setting of Frame Rate: NTSC: 0-30 frames/sec; PAL: 0-25 frames/sec.



- Quality Setup
  Setting of recording quality: Values 1-5. The bigger value, the better quality.

- Pre Record setting
  Pre Recording time when motion alarm. Values: 0-10 seconds.

- Privacy Zone
  Select channel for privacy mask setup.

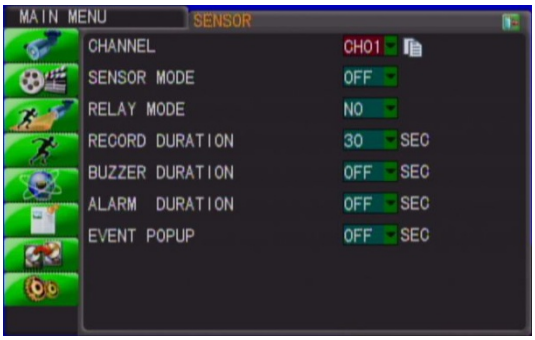
  - Channel: Select channel to setup. Press『COPY』 to copy the same setting to other channels.
  - Enable: Enable/Disable the privacy mask function.
  - Color: Select the color of privacy mask area setting in color Gray/Black/White/Red/Green/Bule/Yellow/Purple.
  - Privacy Zone: Set the privacy mask area.

- Audio
  On/Off the sound effects.
- Encode Mode
  Encoding of channel. Values: VBR or CBR.
- Record schedule setup
  Always and Schedule Record.
  - Record Schedule

Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving mouse wheel]
Select Time&Date	[Up/Down/Left/Right]	[Click/Drag-draw]
Return to Upper Menu	[MENU]	[Right Click] or [Left Click]

  - Copy
    (1) Select source (2) Select target (3) Press COPY icon to copy.

7.3 Alarm Setup

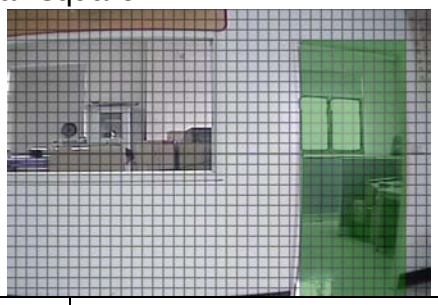


- Channel
  Select the channel to set. COPY icon can copy the present setting to other channels.
- Sensor Mode
  Sensor Mode alarm trigger. Set: OFF / NO / NC.
- Relay Mode
  Relay Mode alarm trigger. Set: NO / NC
- Record Duration
  The duration of the recording after triggered: 10, 20… 60 sec.
- Buzzer Duration
  The duration of the buzzer beeping after being triggered: 1, 5, 10, 15, 20, 30 sec.
- Alarm Duration
  Alarm out after alarm triggered: 1, 5, 10, 15, 20, 30 sec.
- Event Popup
  The Duration of single channel display after being triggered: 1, 5, 10, 15, 20 sec or off.

7.4 Motion Detection

- Channel
  Select the channel to set. COPY icon can copy the present setting to other channels.
- Enable
  Enable/disable motion detection for each camera. Set: On/Off
- Sensitivity
  Sensitivity level of motion detection. Set: 1~10. Higher value equal more sensitive.

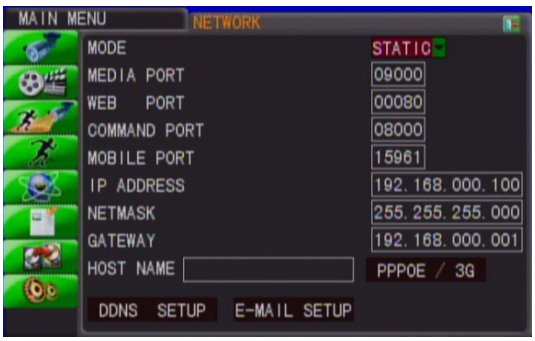
- Motion Area Setup
  Setup by each small square.



Setup Operation	Front Panel & Remote Controller	USB Mouse
Area Selection	[Up/Down/Left/Right]	[Moving Cursor]
Set Detection Area: must set on none detection area(Transparent Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Clear Detection Area: clear the set detection area: must set on detection area(Green Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Return to Upper Menu	[MENU]	[Right Click]

- Record Duration
  The duration of the recording after triggered: 10, 20… 60 sec. or off.
- Buzzer Duration
  The duration of the buzzer beeping after being triggered: 1, 5, 10, 15, 20, 30 sec.
- Alarm Duration
  Alarm out after alarm triggered: 1, 5, 10, 15, 20, 30 sec.
- Event Popup
  The Duration of single channel display after being triggered: 1, 5, 10, 15, 20 sec or off.

7.5 Network Setup

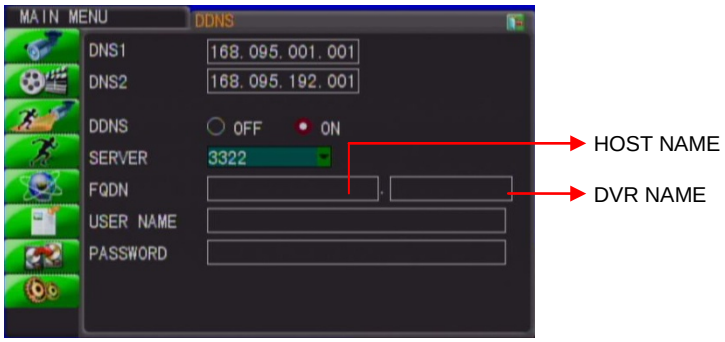


- Mode
  Set the connection method. Set: Static IP, DHCP, PPPoE.
- Media Port
  Port used for stream media. Default is port 9000.
- WEB Port
  Port used for web access. Default is port 80.
- Command Port
  Port used for settings. Default is port 8000.
- Mobile Port
  Mobile phone port (factory default): 15961.

- IP Address
  Assigned IP address.
- Netmask
  Assigned net mask
- Gateway
  Assigned gateway
- HOST Name
  Set the HOST Name of DVR.
- PPPOE/3G
  - PPPoE: Need account and password for PPPoE.

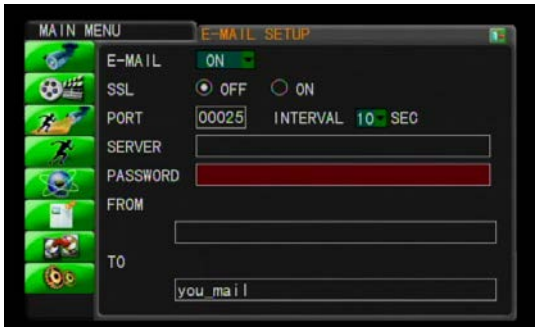
  - 3G: Need account, password, APN and dial number for 3G.

- DDNS setting



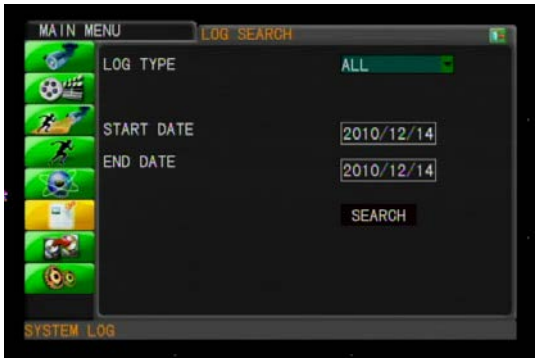
  - DNS1 First Domain Name Server, Default : 168.95.1.1
  - DNS2 Second Domain Name Server, Default :168.95.192.1
  - DDNS
    Enable/disable Dynamic Domain Name server. Values: On, Off.
  - DDNS Server
    DDNS Server, Values: 3322, dyndns, cctvdvr.
    When using DDNS server, HOST name, server name and account/password are required.

- E-Mail Setting

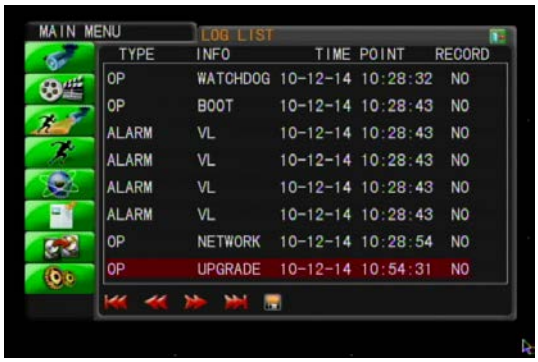


  - E-MAIL
    Forward E-mail after alarm triggered. Enable: On/Off
  - SSL
    Enable the SSL encryption. Recommend to set on if it is using gmail.
  - Port
    SMTP port number key in. For example, gmail port 465.
  - Server
    SMTP server key in. For example, gmail: smtp.gmail.com
  - Password
    Sender E-mail account password
  - From
    Sender E-mail address key in. For example,
    gmail: mail1@gmail.com
  - To
    Receiver E-mail address key in. For example,
    gmail: mail2@gmail.com
  - Interval
    When alarm keeps going, the time span to send E-mail. Values: 10, 30, 60 seconds.

7.6 Log Search



- Log type
  Set conditions for searching: type and time range. Log type can be ALL, Alarm, Operation, Motion, Sensor and Video Loss.
- Start/End time
  Set the search range (Year/Month/Day). Press [SEARCH] to search.


MAIN MENU
LOG LIST
TYPE INFO TIME POINT RECORD
OP WATCHDOG 10-12-14 10:28:32 NO
OP BOOT 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
OP NETWORK 10-12-14 10:28:54 NO
OP UPGRADE 10-12-14 10:54:31 NO

Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click]
First Page		
Previous Page		
Next Page		
Last Page		
Backup to USB disk		

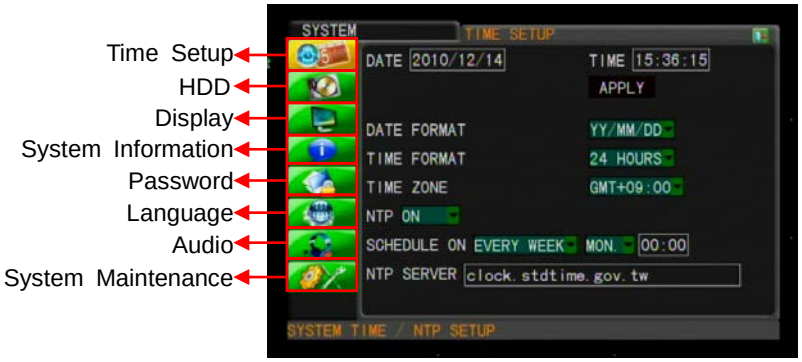
★ When Trigger Recording is marked, click to playback.

7.7 Backup

- Channel
  Backup all channels or single channel 1-4.
- Record Type
  Select all, normal or alarm.
- Start/End time
  Select the backup range of time. Press Search to start searching. The record list will be shown if available and follow [Record list] to backup.

Storage Device Choose: USB Disk, DVD Recorder, USB DVD Recorder.

7.8 System



7.8.1 Time Setting

- Date/Time
  Select by using virtual keyboard.
- Date Format Setup
  Set: YY/MM/DD, MM/DD/YY.
- Time Format Setup
  Set: 24Hours, 12Hours.
- Time Zone Setup
  Time Zone setting of DVR.
- NTP Setting（Network Time Protocol）
  NTP: On or Off
  Schedule Time: Using virtual keyboard
  NTP server: Using virtual keyboard

7.8.2 HDD Setup

- Format

  Format the selected HDD
  Format HDD

- Overwrite
  Enable/Disable Overwrite, Values: On/Off.
  If Overwrite is enabled, the period can be set as 6, 12, 24, 36, 48, 72 hours and 7, 15, 30, 60 days.
- Pack Time
  Set the required packing time frame to allow the system to pack each saving file under continue recording mode. Pack time setting: 5 min, 10min, 15min, 20min, 30min, and 60min.
- HDD Error Buzzer Enable
  When the hard drive does not have enough space or something wrong, set the buzzer on. Values: On/Off.
- HDD Error Alarm Enable
  When the hard drive does not have enough space or something wrong, trigger the alarm. Values: On/Off.
- USB Disk Info

  Format USB Memory Stick

7.8.3 Display Setting

- GUI Display
  GUI display mode can be VIDEO or VGA.
- Video Switching Time
  Set the switching time when switching channels in video mode.
  Values: 1-99 seconds. (0 sec is Off)
- VGA Switching Time
  Set the switching time when switching channels in VGA mode.
  Values: 1-99 seconds. (0 sec is Off)
- Switching Sequence
  Set the switching sequence of channels.

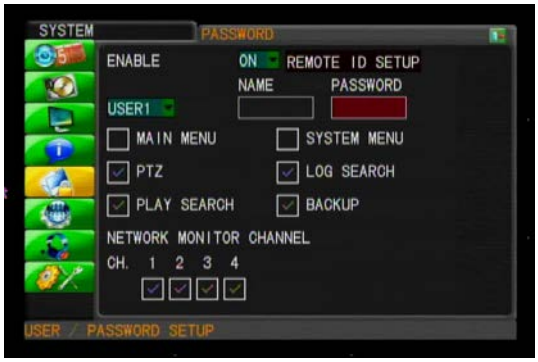
- Video Margin
  Set the display margins of the screen. They are Left, Right, Top and Bottom with range between 0 - 36.

- XGA Resolution
  XGA Resolution: 800x600, 1024x768, 1280x1024, 1440x900.

7.8.4 System Information

Provide the firmware version, MAC address, HDD status….

7.8.5 User Password

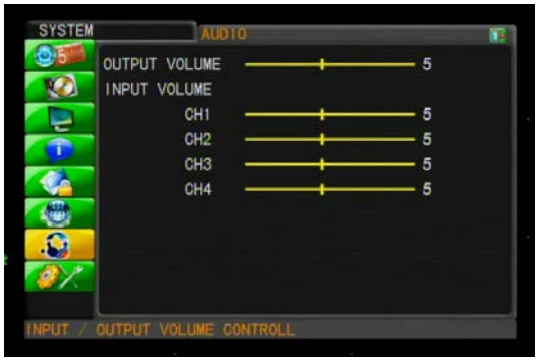


- Password Setup
  Enable/Disable password checking. Values: On/Off (Default)
  Administrator account/password can not be blank. And at least 4 characters for the password.
- Administrator account/password
  Administrator account allows user to access all of functions.
- User account/password
  Access rights can be assigned by setting.
- Remote ID setup
  Can adjust remote control ID to control multiple DVR.

7.8.6 System Language

- Language
  Values: Traditional Chinese and English. Auto rebooting after change.
- Function Tip
  Show function tips below the menu items.
  Value: On/Off (Default).

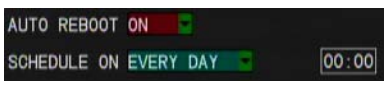
7.8.7 Audio Setting



- Audio Volume
  Set the volume of audio In/Out. Values: 1-10. (Default: 5)

7.8.8 System Maintenance

- Auto maintenance: Set time for auto rebooting. Value: On/Off.
  Auto rebooting setting



- F/W update
  Please plug the USB memory stick into the USB port on the DVR rear panel after download the new firmware to the USB memory stick.
  Note: the firmware only can be upgraded by using the USB port. Please don't operate the system, remove the USB memory stick or remove the power while it is in upgrade progressing in order to prevent any serious system error. The system will automatic reboot after upgrade.
- Load Setup Default
  Load factory default. Refer to [Default Setting].

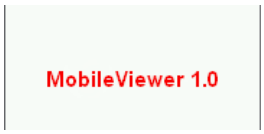
- Reboot the DVR
  Reboot the DVR.
- ShutDown
  System will close the recording file. Please remove the power line manually.

8. Cell Phone Monitoring Operation

■ JAVA Script surveillance:

1. The mobile Phone must support JAVA Script
2. To download the JAVA software: open Internet Browser on the mobile phone, and enter the IP address of the DVR and add /viewer.jar at the end. Example: http://xx.xxx.xxx/viewer.jar.

3. Execute the application

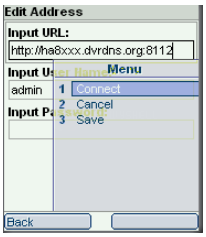


4. Click on “Add” on the drop down menu to add an IP address.

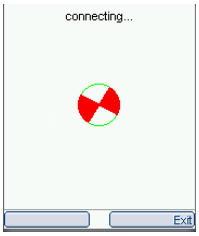
5. Enter the IP address, user name and the password of the DVR and click on “Save”

6. Enter the correct IP address and click on “Open”

7. Click on “Connect” to connect to the DVR.



8. Connecting



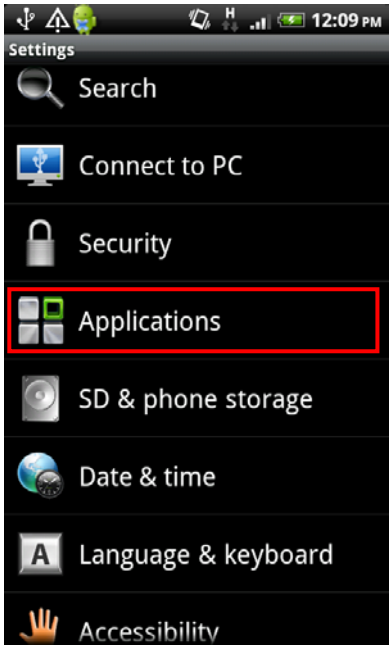
9. Connected

10. If fail to connect, please repeat steps 7 to 9.

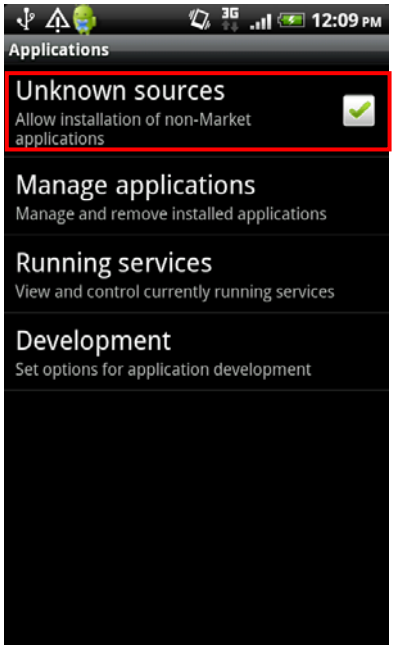
Menu	Capture
	Channel[1~4]

■ Android Software install/setup procedure

Before the installation, please check the ”Allow Non-market application” or “unknown source” checkbox in your mobile phone< PIC 1~2>.



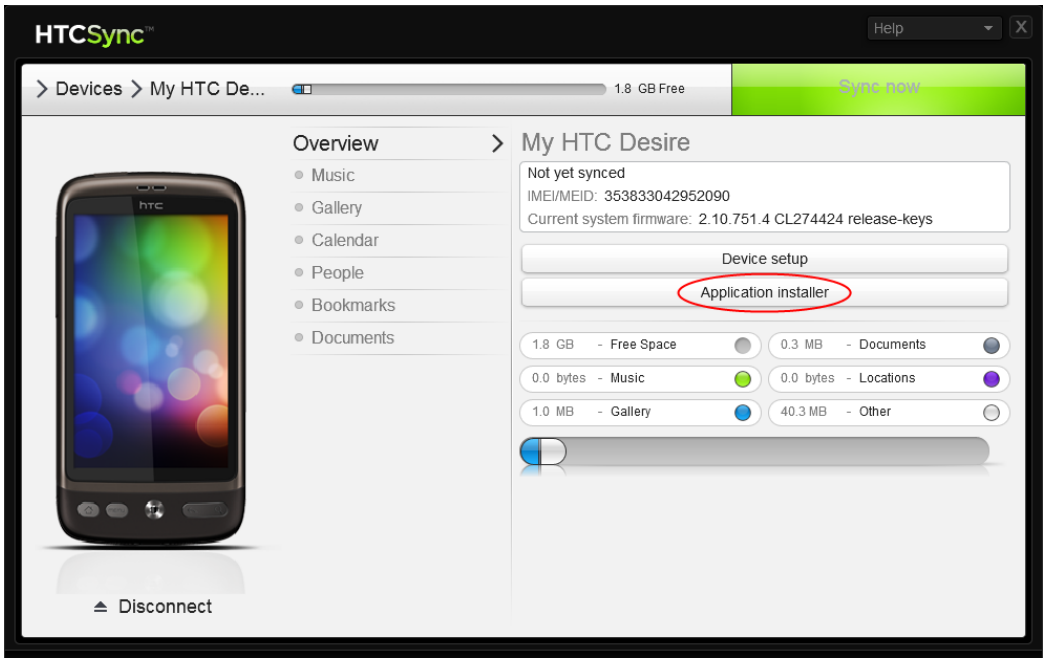
<PIC 1>



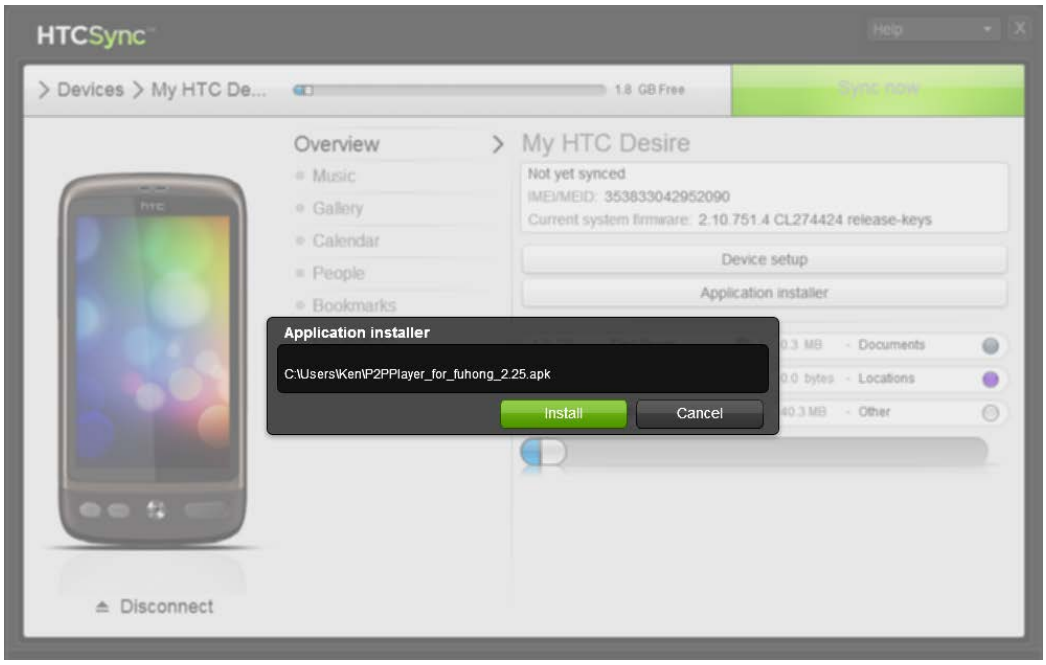
< PIC 2>

First method

1. First, please make sure the PC synchronize software had installed and activated in your Android mobile phone. And connect your android phone to PC via USB.
2. Install “Castillo player” software player to the Android phone through your synchronize software. You may see the example below in the case of HTC.



<PIC 3>

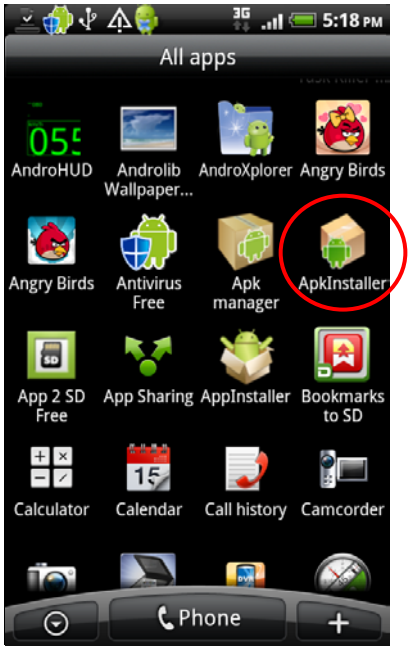


<PIC 4>

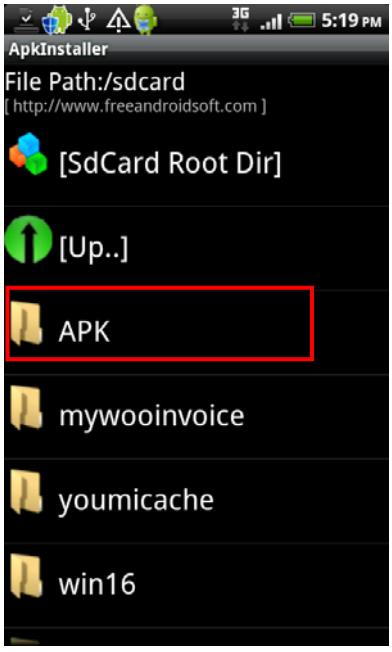
Method two

You may copy the APK installation package to your mobile phone or memory card, and then install it through other software.

1. Copy the “Castillo player” software package to your mobile phone through USB or directly to SD memory card.
2. Download the free APK installation software from Market, for example APKinstallerc or AppInstaller, here we use AppInstaller for example<PIC 5~6>.

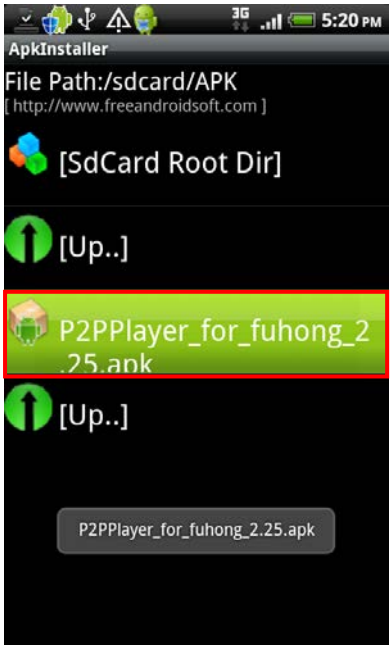


<PIC 5>

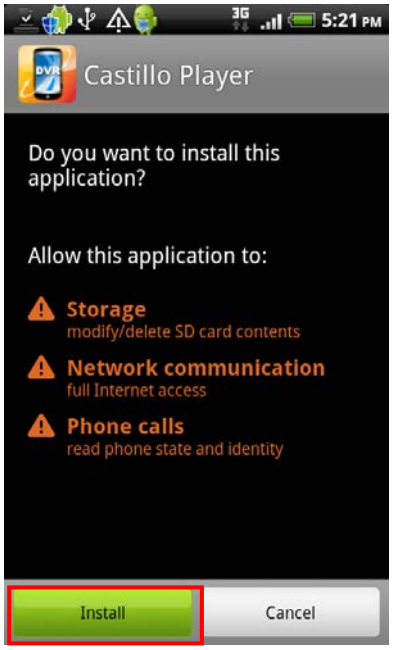


<PIC 6>

3. Run the AppInstaller program, install the APK software package from your SD memory card<PIC 7~8>.

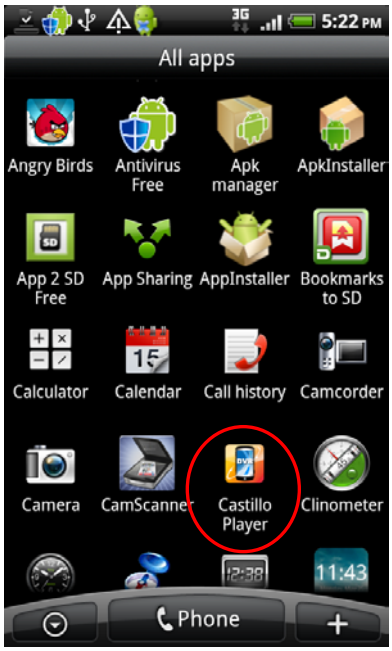


<PIC 7>



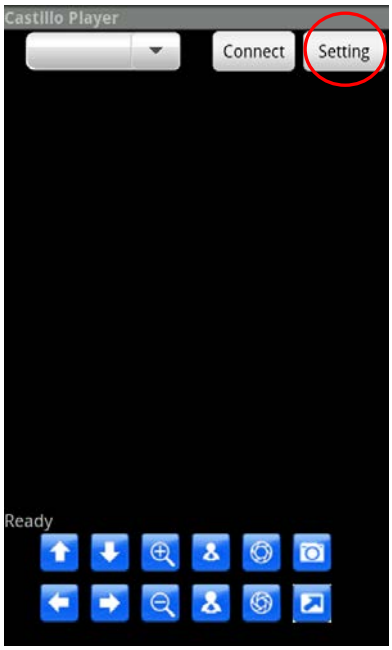
<PIC 8>

4. After the installation, you may find the “Castillo Player” in your program list, click it to run the program<PIC 9>.

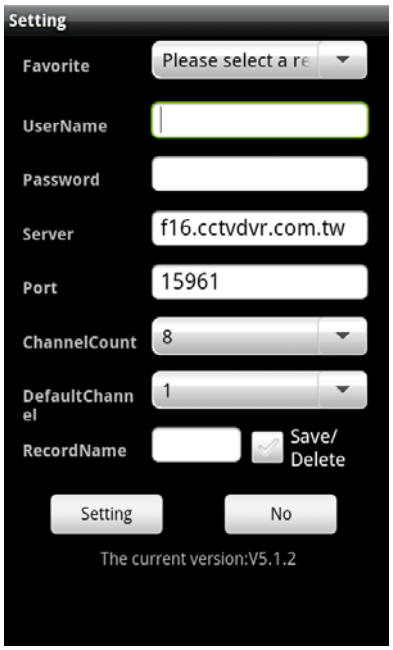


<PIC 9>

5. Press the “Setup” button to setup the connection setting <PIC 10>. Enter your individual configuration<PIC 11>.



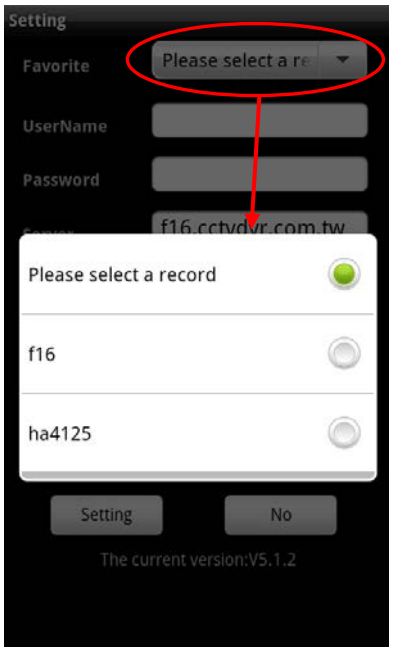
<PIC 10>



<PIC 11>

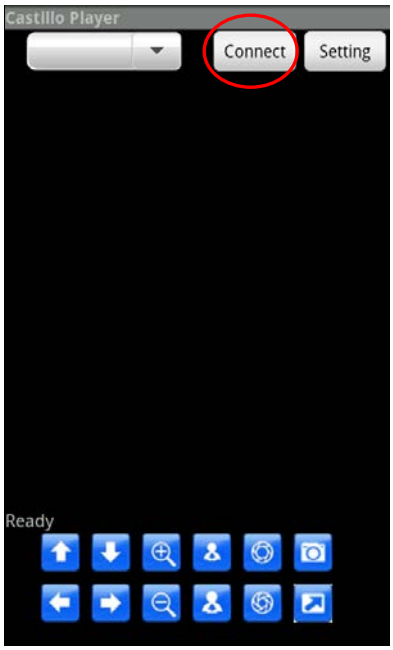
6. After setting complete, enter a name you prefer then click the “Add to my favorite” checkbox to save the setting<PIC 12~13>.

<PIC 12>



<PIC 13>

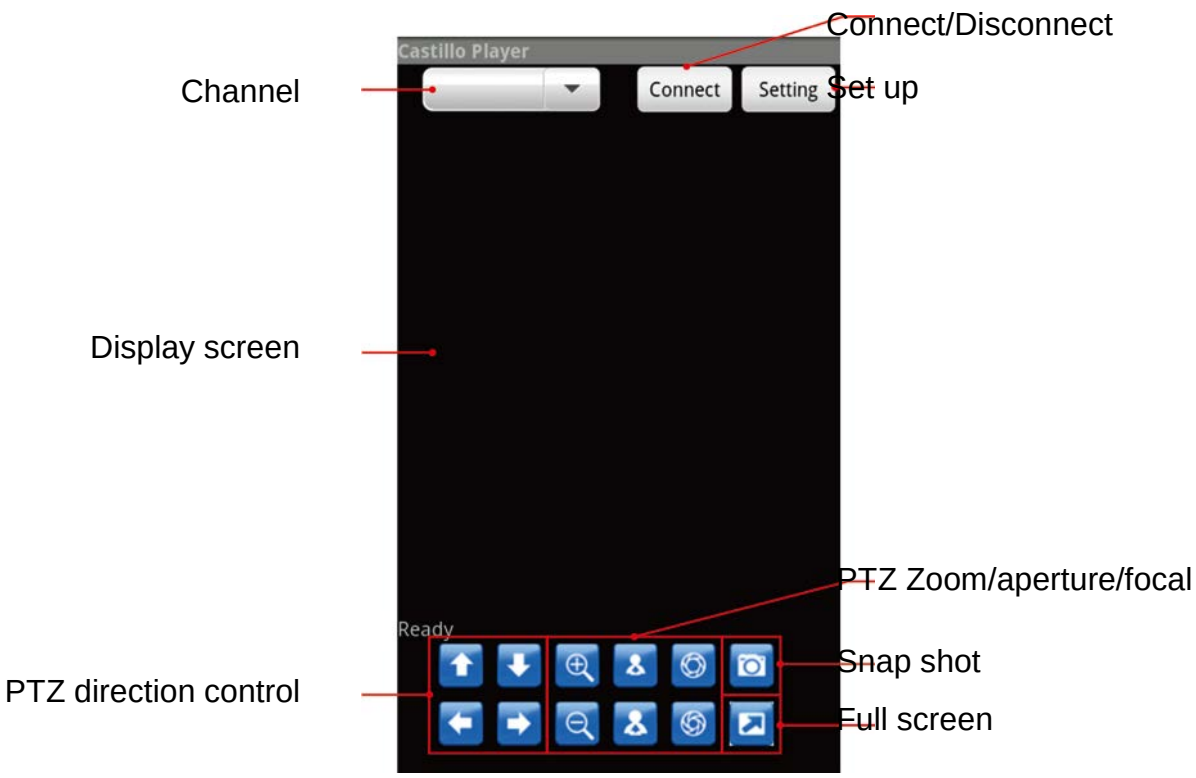
7. Press “Connect” button<PIC 14>, it’ll connect to the DVR according to your setup, and you may see the DVR picture after the connection established<PIC 15>.



<PIC 14>

<PIC 15>

8. <PIC 16>Operate instruction below:

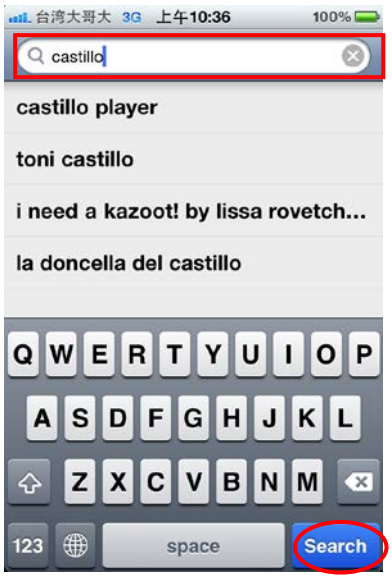


<PIC 16>

■ iPhone software install/setup procedure

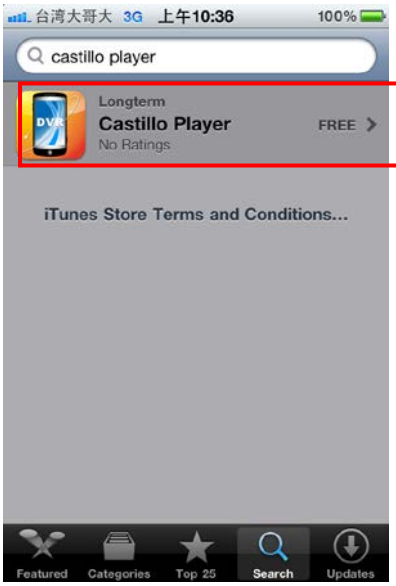
1. Download the “Castillo player” in AppStore then install it to your IPhone. <PIC 1~6>

<PIC 1>

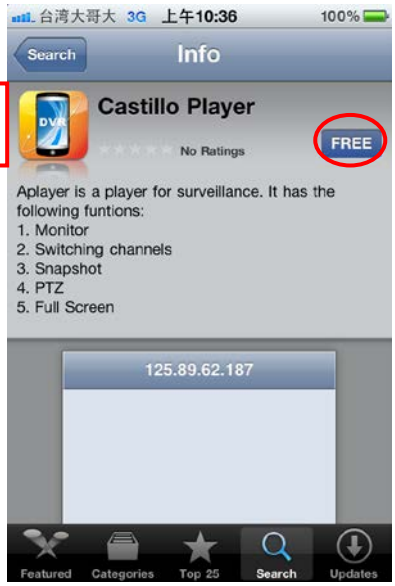


<PIC 2>

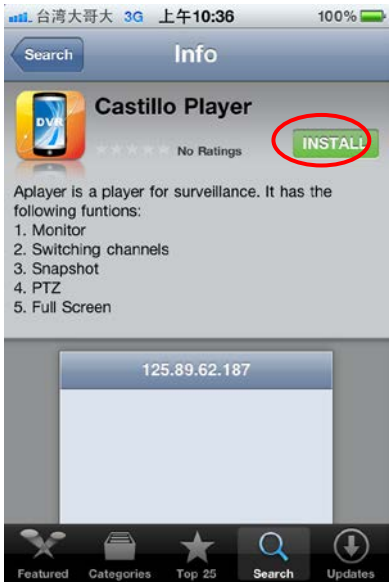
<PIC 3>



<PIC 4>



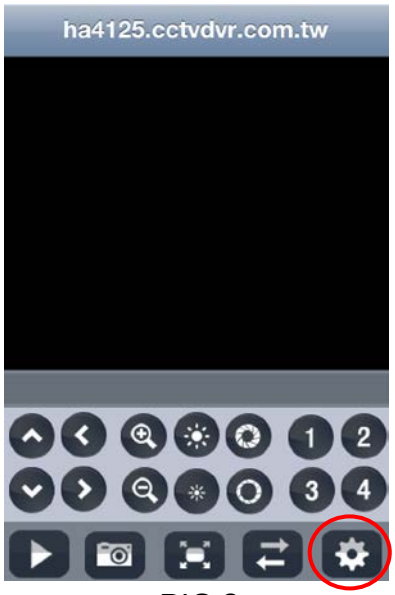
<PIC 5>



<PIC 6>

2. Run the “Castillo Player” after installation<PIC 7>. Press “setup” button to setup the connection setting<PIC 8>. Enter your individual configuration then press “back” button to go back to the main screen<PIC 9>.

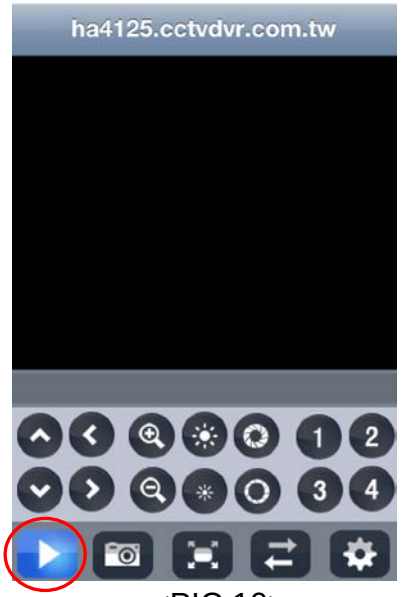
<PIC 7>



<PIC 8>

<PIC 9>

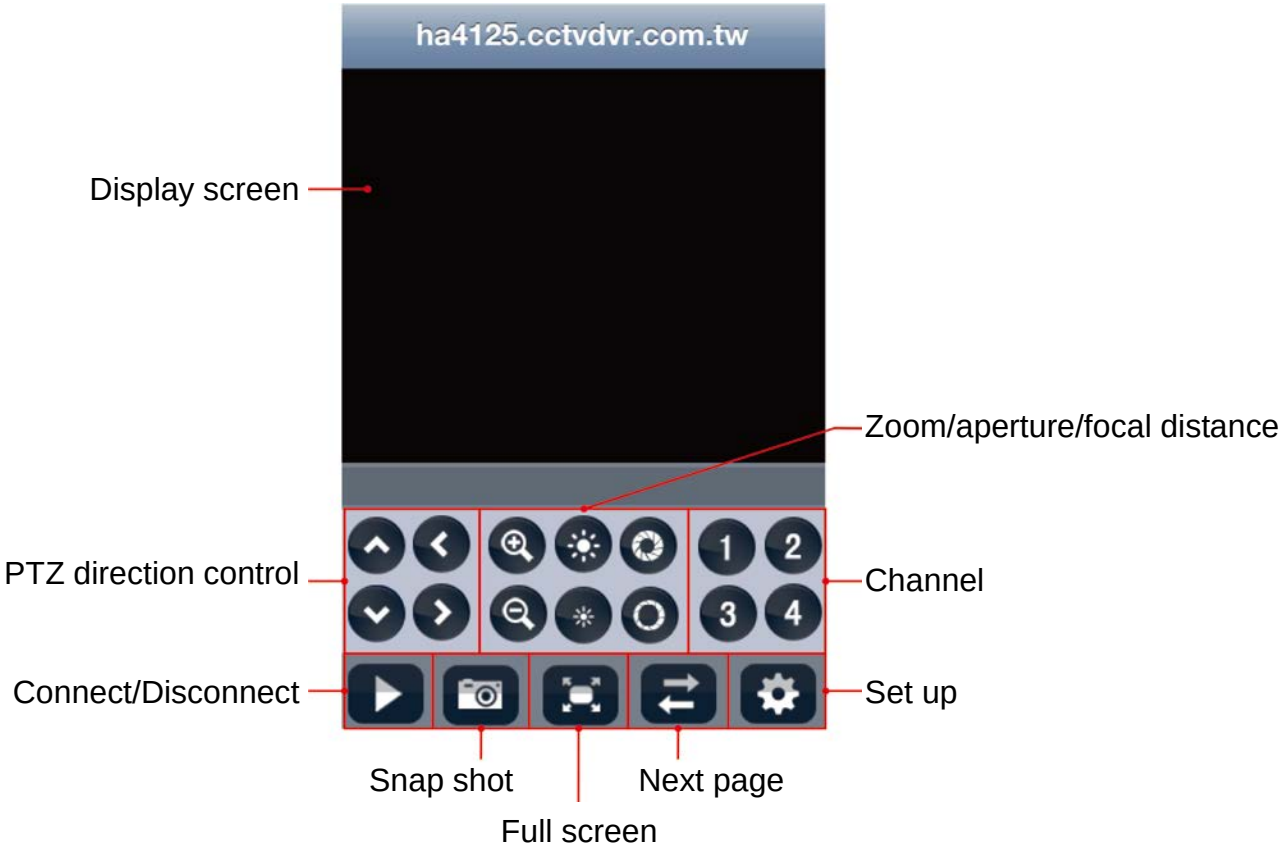
3. Press “Play” button, then you may see the DVR live view picture after the connection established <PIC 10~11>.



<PIC 10>

<PIC 11>

4. <PIC 12> Operate instruction below:

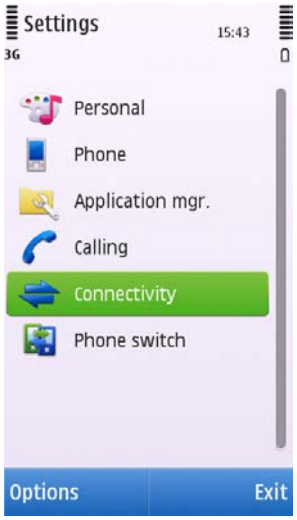


<PIC 12>

■ Symbian Software install/setup procedure

1. Copy the Symbian player to your mobile phone or memory card; you may see the example below in the case of NOKIA. <PIC 1~5>

<PIC 1>



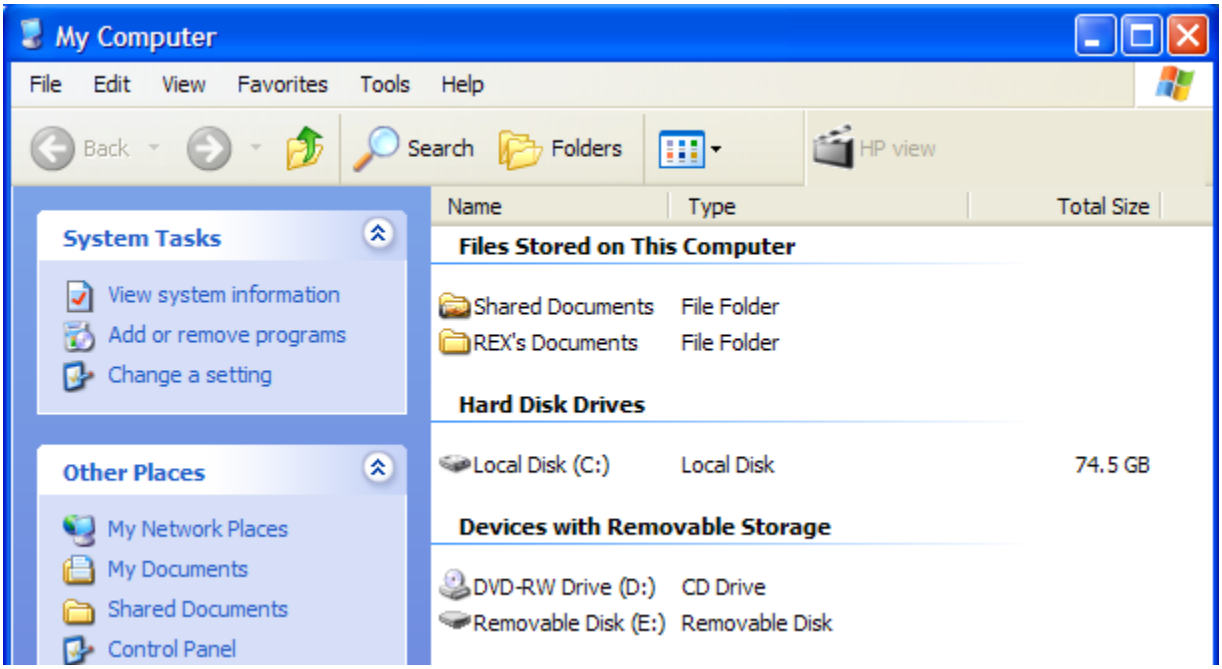
<PIC 2>

<PIC 3>

<PIC 4>

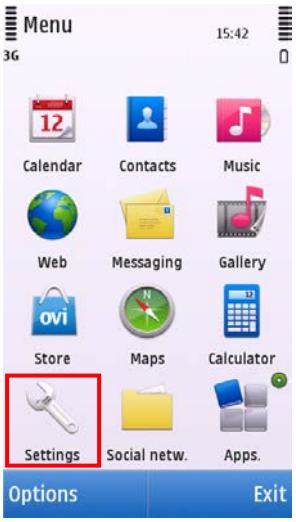
<PIC 5>

2. Connect the mobile phone to PC via USB, copy the live view software to the memory card of your mobile phone <PIC 6>.

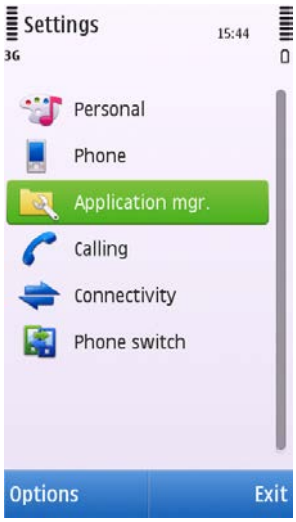


<PIC 6>

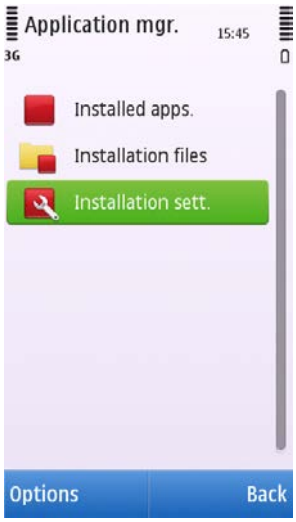
3. Before the installation, please make sure you had cancel the “Only Signed Application”, also cancel the “Connection credentials check” <PIC 7~11>.



<PIC 7>



<PIC 8>



<PIC 9>

<PIC 10>

<PIC 11>

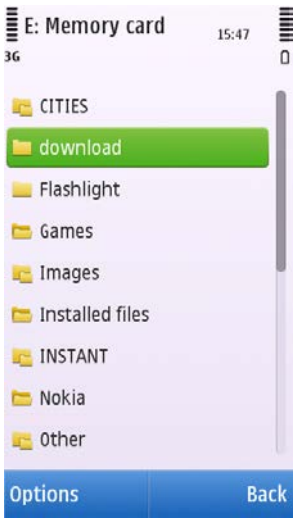
4. Enter the folder which you'd saved the live view software "fuho_20110221.sisx", double click to install, follow the instruction to proceed <PIC 12~22>.

<PIC 12>

<PIC 13>

<PIC 14>

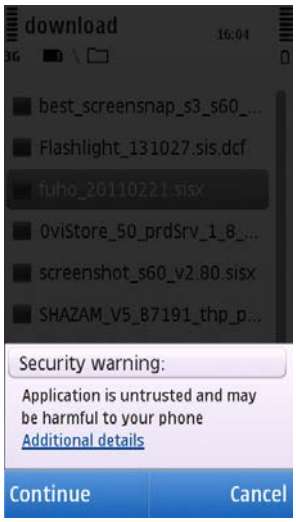
<PIC 15>



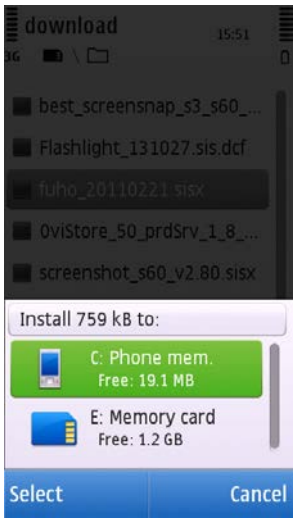
<PIC 16>

<PIC 17>

<PIC 18>

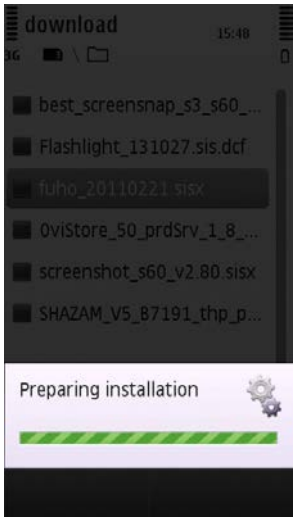


<PIC 19>



<PIC 20>

<PIC 21>



<PIC 22>

5. After the installation, enter the “Installed Application” and you may see the “Castillo Player” inside <PIC 23~25>.

<PIC 23>

<PIC 24>

<PIC 25>

6. Click and run the Castillo Player program <PIC 26~27>.

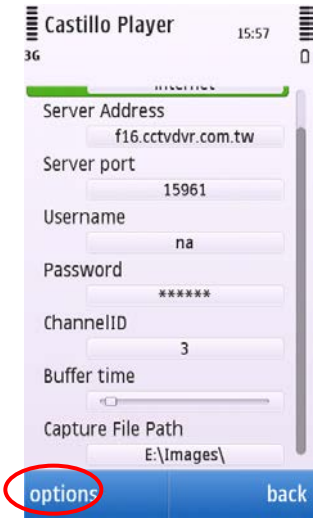
<PIC 26>

<PIC 27>

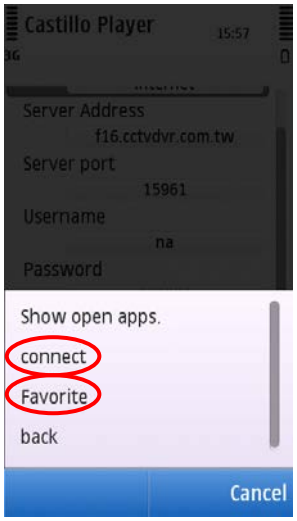
7. Press the “Setup” button to setup the connection setting. After setting complete, click the “Add to my favorite” button to save the setting. Press “Connect” button, it’ll connect to the DVR according to your setup <PIC 28~32>.

<PIC 28>

<PIC 29>



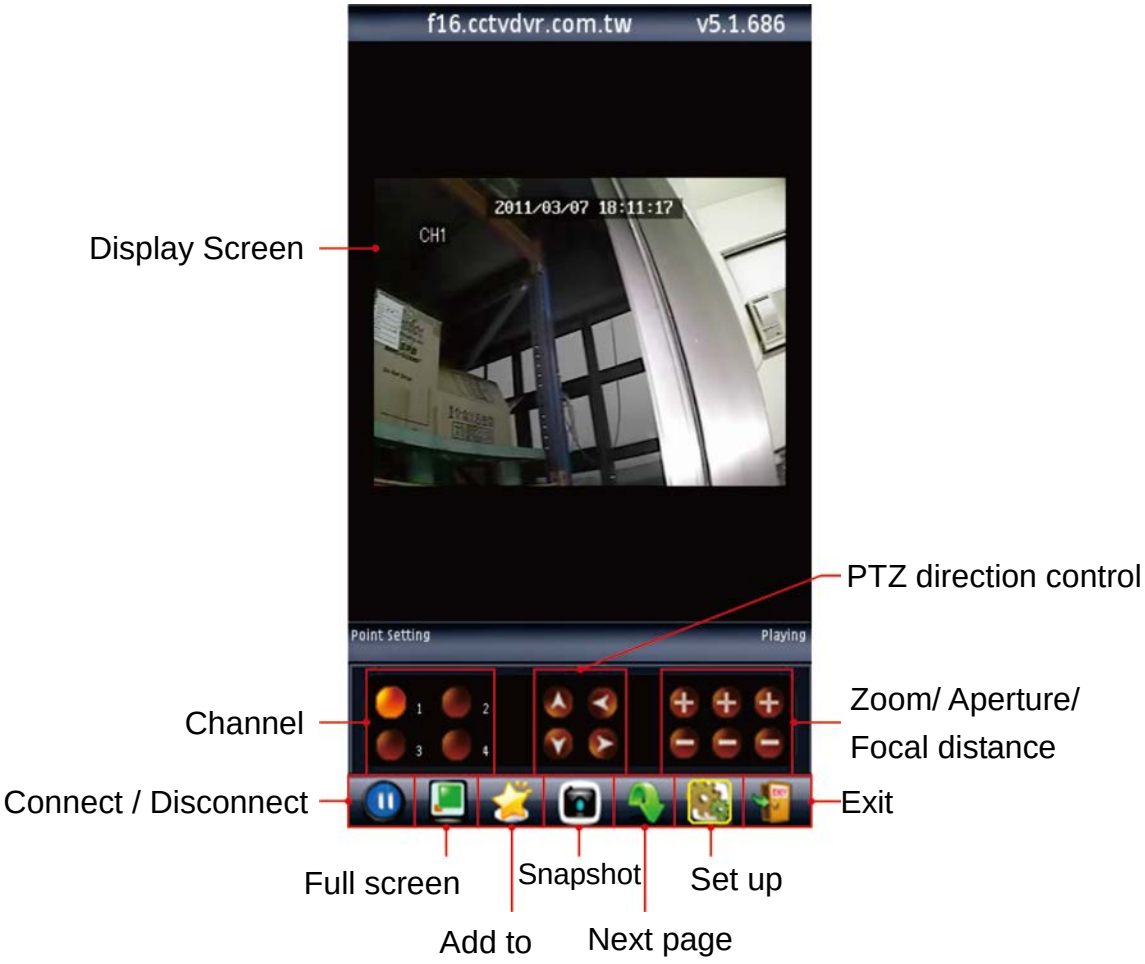
<PIC 30>



<PIC 31>

<PIC 32>

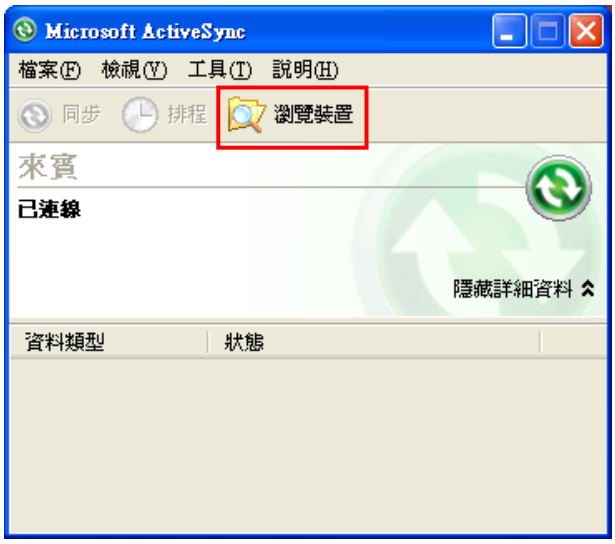
8. <PIC 33>Operate instruction below:



<PIC 33>

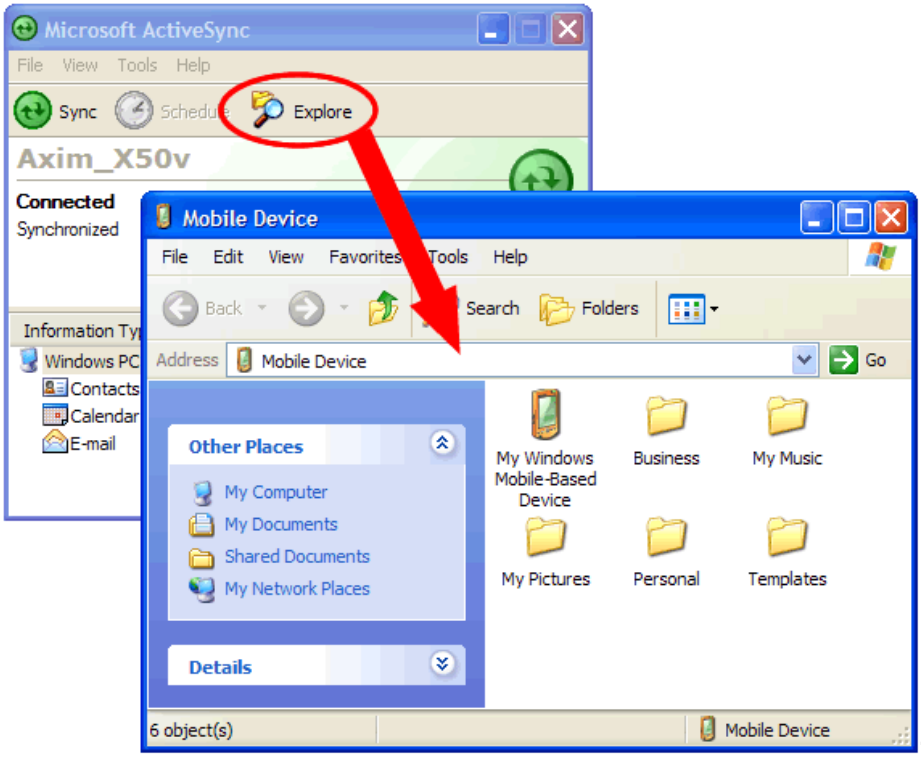
■ Windows Mobile Software install/setup procedure

1. Please install “Microsoft ActiveSync” into the PC before installing CAB software.
2. Execute the Microsoft ActiveSync program in your PC first, and connect the Windows Mobile SmartPhone to PC via USB, then it’ll synchronize the SmartPhone and PC.
3. In ActiveSync program, Click “Browse” button to open the mobile device folder <PIC 1>.



<PIC 1>

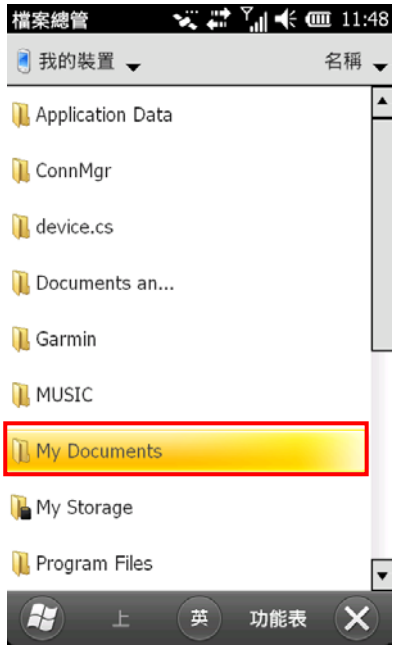
4. Copy the .CAB file of Castillo Player to your mobile device folder, or any other folder according to your individual needs <PIC 2>.



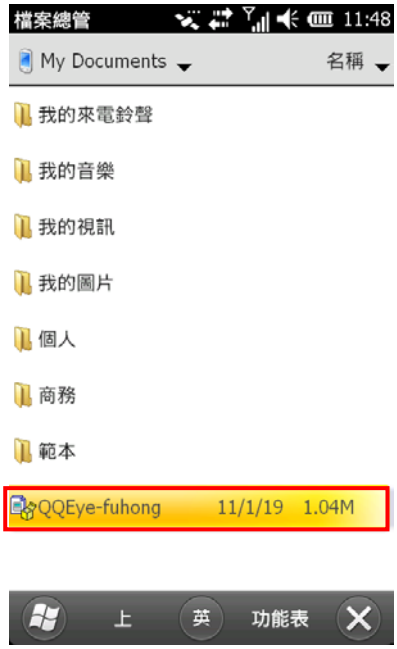
<PIC 2>

5. Please disconnect the SmartPhone from your PC, and begin the installation below:
6. Execute the Castillo Player CAB install package from the File browser, you may find it in your mobile device folder <PIC 3~5>.

<PIC 3>



<PIC 4>



<PIC 5>

7. Double click and it'll begin the installation, follow the instruction for setting up. After the installation, you may find the "Castillo Player" in your program <PIC 6~10>.

<PIC 6>

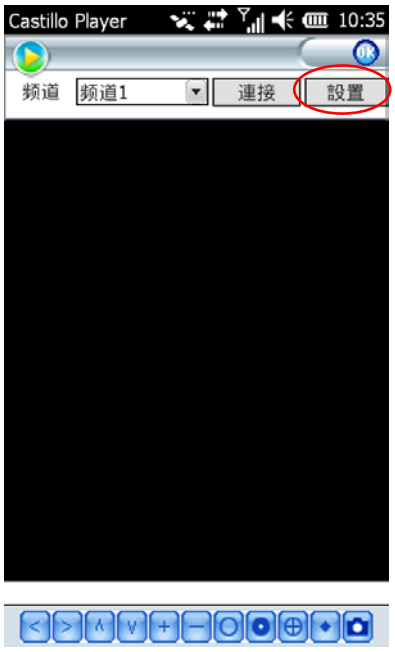
<PIC 7>

<PIC 8>

<PIC 9>

<PIC 10>

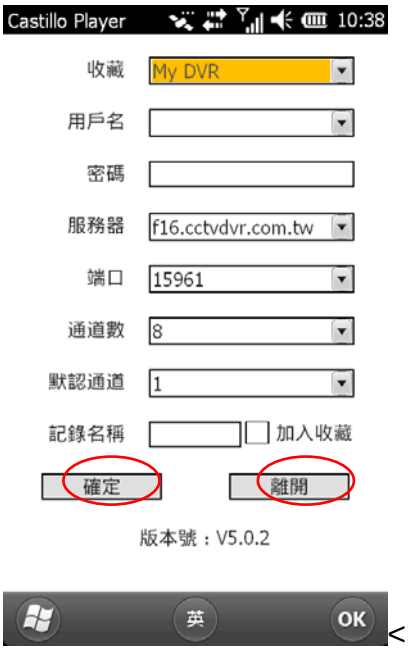
8. Run the Castillo Player program, press the “Setup” button to setup the connection setting. After setting complete, enter a name you prefer then click the “Add to my favorite” checkbox to save the setting. Press OK and Leave to go back to the main screen <PIC 11~14>.



<PIC 11>

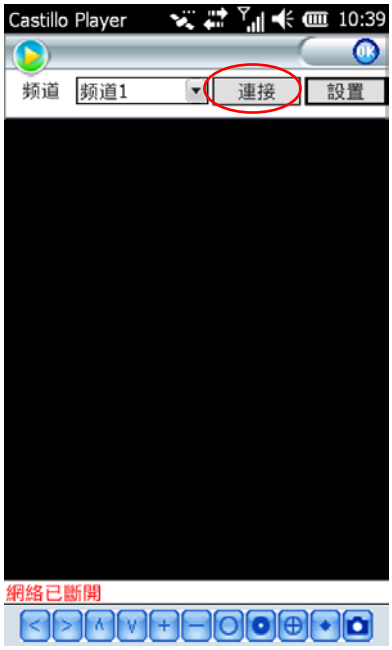
<PIC 12>

<PIC 13>



<PIC 14>

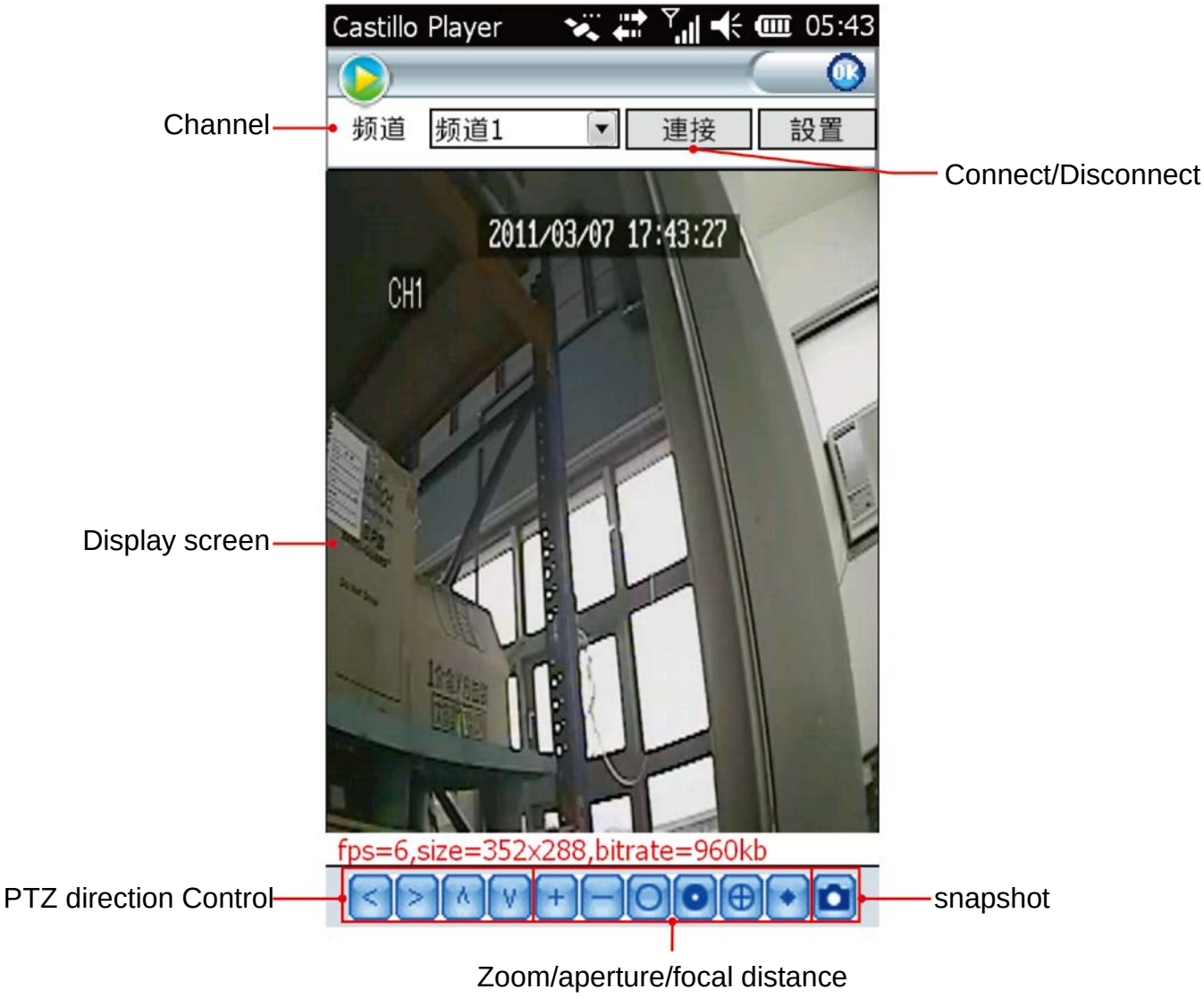
9. Press “Connect” button, it’ll connect to the DVR according to your setup, and you may see the DVR picture after the connection established <PIC 15~16>.



<PIC 15>

<PIC 16>

10. <PIC 17>Operate instruction below:

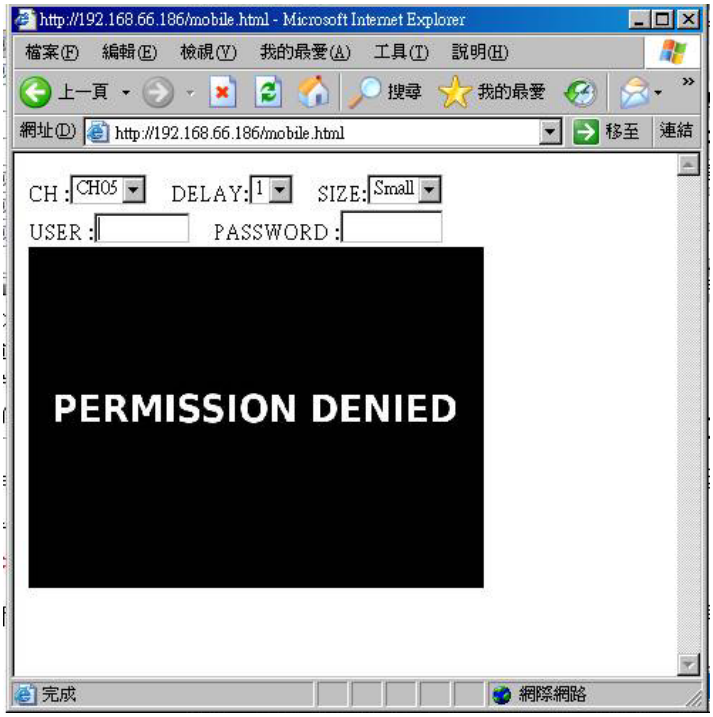


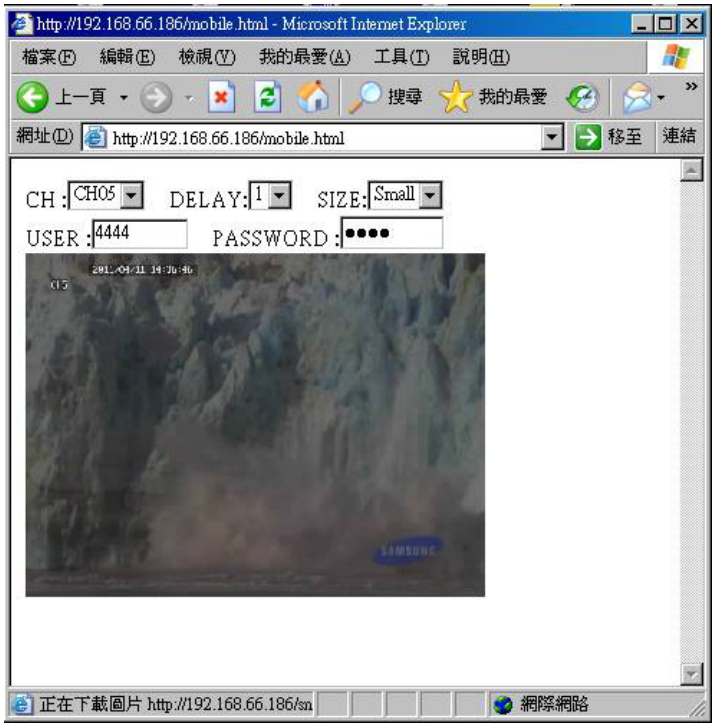
<PIC 17>

■ Blackberry Software Connect Procedure

1. Blackberry RTSP Connect procedure:
   Verify Authentication, website address input format as below
   rtsp://(website address)/**ch(channel number)?user=(user ID)&pwd=(user password)**
   e.g. rtsp://f16.cctvdvr.com.tw:554/**ch2?user=2222&pwd=2222**

2. Mobile Webpage:
   Please enter the ID & password again after you login, or you'll get black screen of permission denied as below:





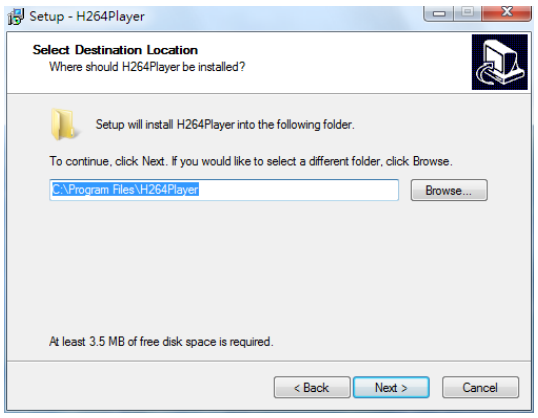
9. H264 Player Operation

- Preface
  H264 Player software allows to playback the backup saving file from the DVR.
- System Requirement
  Operating System: Windows 2000, XP, Vista, Windows 7.
- Program obtainment and installation
  While user start to backup the file from DVR, the system will automatically copy the H264Player.exe file and recorded data to the backup device for example, an USB flash memory stick.
  - Execute the installation file

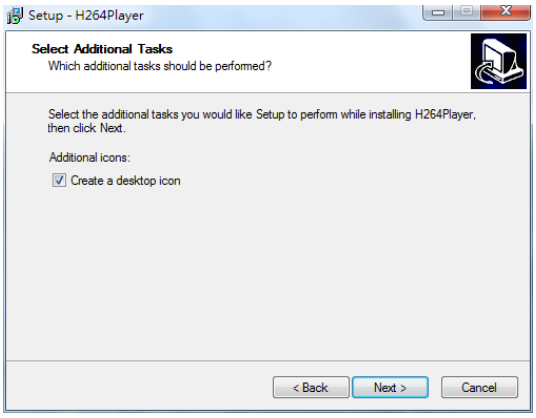
Step 1: Ask for the Installation

Setup - H264Player
Welcome to the H264Player Setup Wizard
This will install H264Player on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

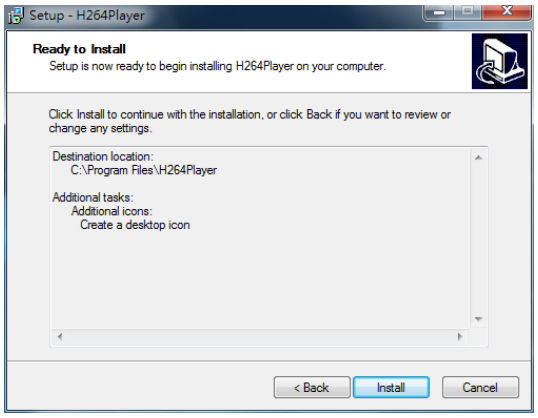
Step 2: Select the Install Location


Setup - H264Player
Select Destination Location
Where should H264Player be installed?
Setup will install H264Player into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\H264Player
Browse...
At least 3.5 MB of free disk space is required.
< Back
Next >
Cancel

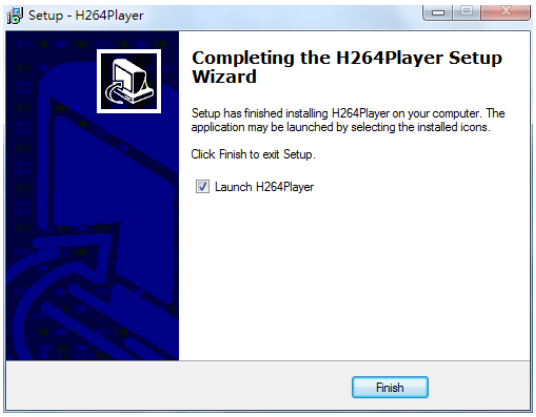
Step 3: Select Additional Tasks


Setup - H264Player
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing H264Player, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

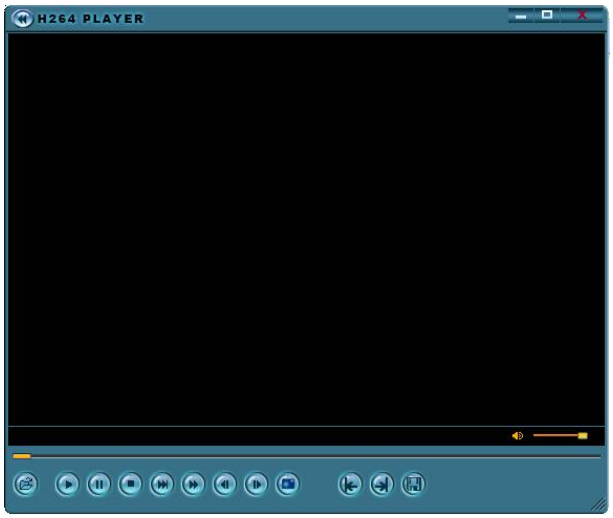
Step4: Install Confirmation


Setup - H264Player
Ready to Install
Setup is now ready to begin installing H264Player on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\H264Player
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

Step 5: Installation Complete


Setup - H264Player
Completing the H264Player Setup Wizard
Setup has finished installing H264Player on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch H264Player
Finish

◆ User Interface

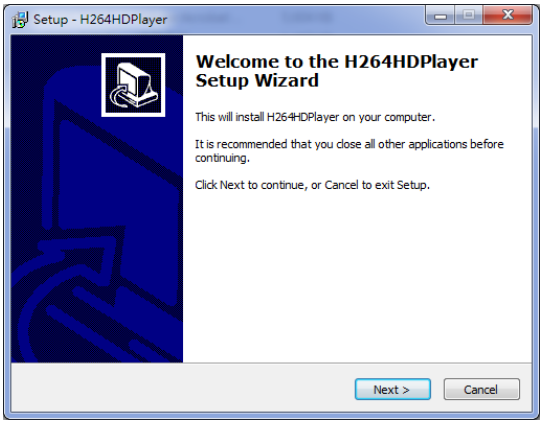


Open File	Click
Pause	Click
Stop	Click
Play 1x	Click
Fast Forward	Click
Slow Forward	Click
Capture the image (snap shot) to the host computer	Click
Volume Control	Drag
Rewind	Click
Step Forward	Click
Mark start time	Click
Mark end time	Click
Backup	Click
Pop-up Menu	Right click the mouse to open the pop-up menu including Setting, Language, About H264Player, Exit

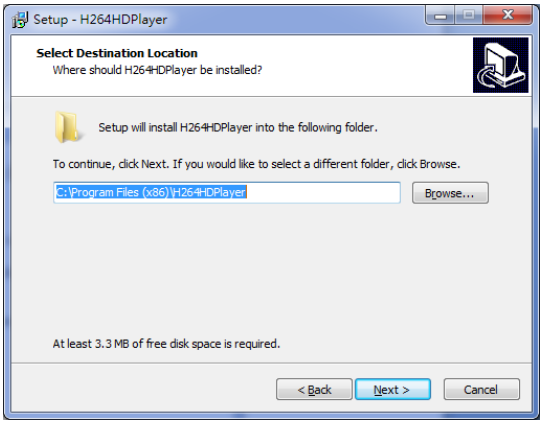
10. H264 HDPlayer Operation

- Preface
  H264 HD Player supports direct HDD playback through USB connection. It also supports to playback the individual recorded video files.
- System Requirement
  Operating System: Windows 2000, XP, Vista, Windows 7.
- Execute the installation file

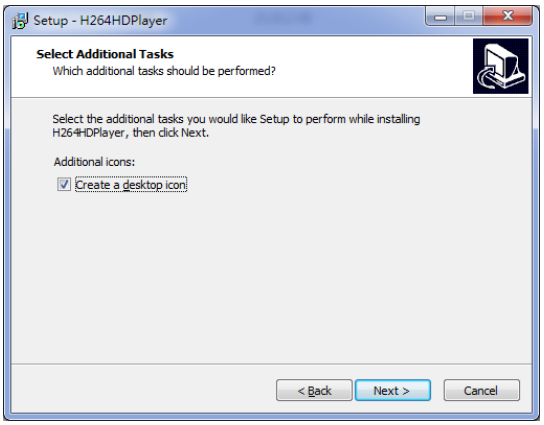
Step 1: Ask for the Installation


Setup - H264HDPlayer
Welcome to the H264HDPlayer Setup Wizard
This will install H264HDPlayer on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

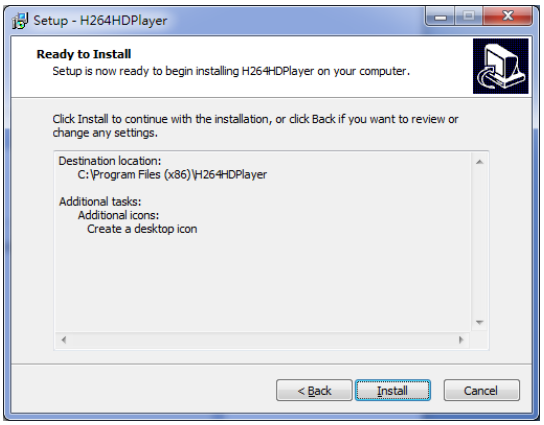
Step 2: Select the Install Location


Setup - H264HDPlayer
Select Destination Location
Where should H264HDPlayer be installed?
Setup will install H264HDPlayer into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\H264HDPlayer
Browse...
At least 3.3 MB of free disk space is required.
< Back
Next >
Cancel

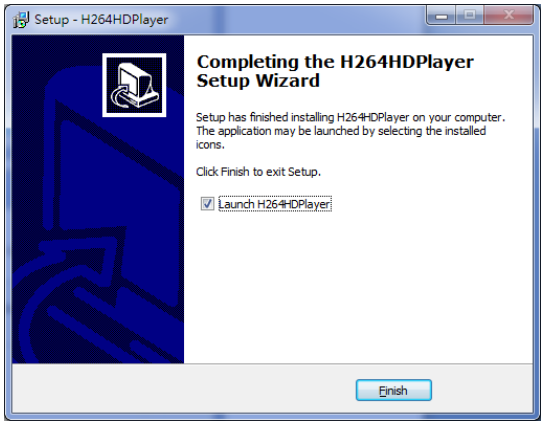
Step 3: Select Additional Tasks


Setup - H264HDPlayer
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing H264HDPlayer, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

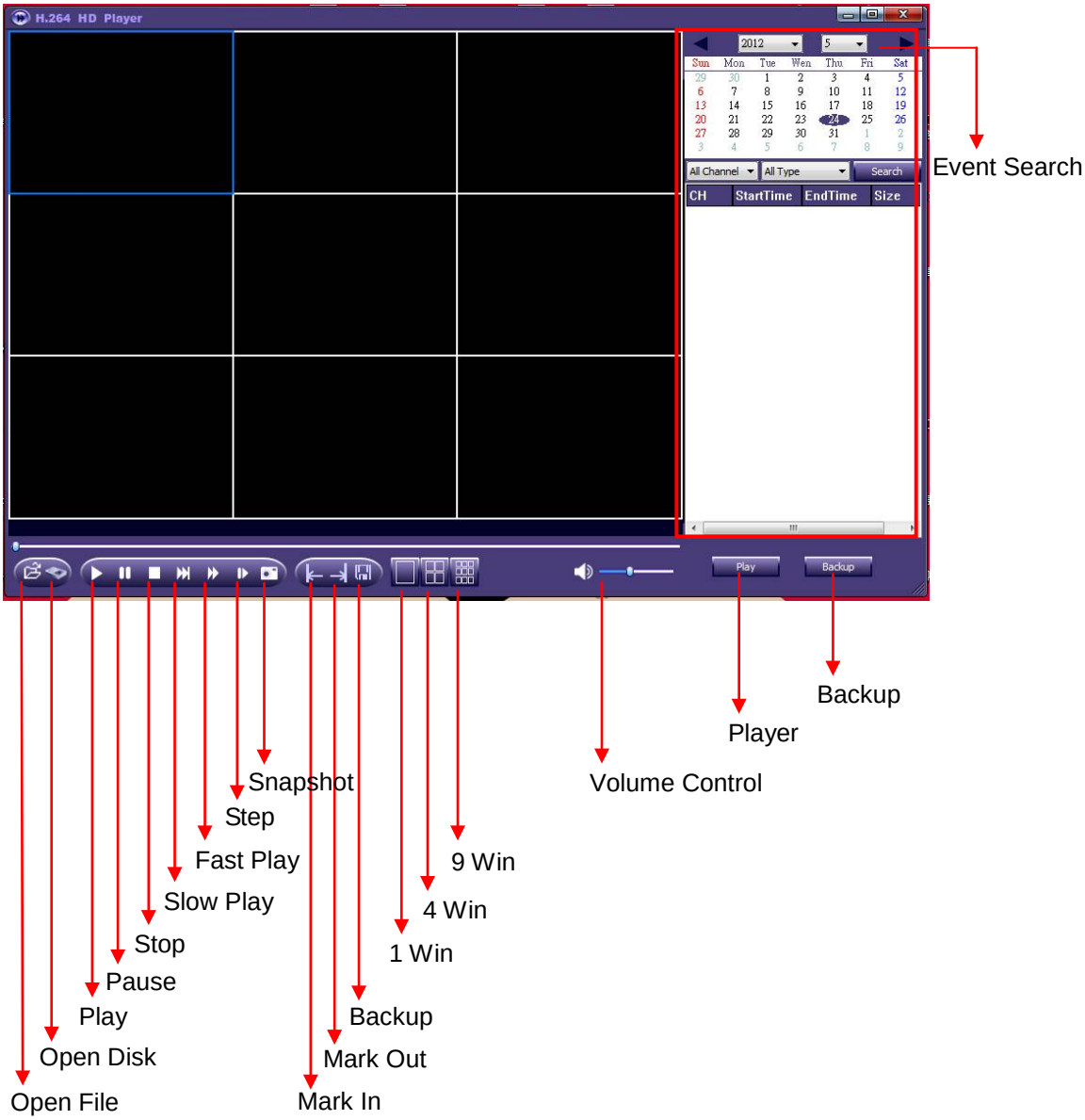
Step4: Install Confirmation


Setup - H264HDPlayer
Ready to Install
Setup is now ready to begin installing H264HDPlayer on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\H264HDPlayer
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

Step 5: Installation Complete


Setup - H264HDPlayer
Completing the H264HDPlayer Setup Wizard
Setup has finished installing H264HDPlayer on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch H264HDPlayer
Finish

■ User Interface

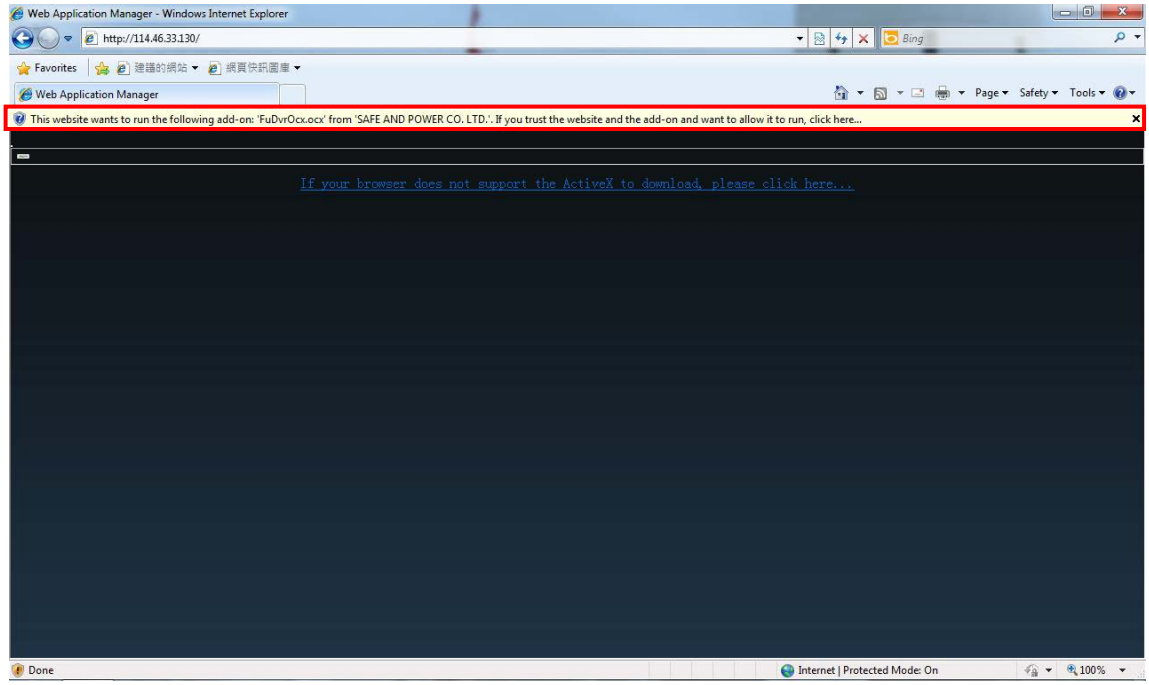


■ Pop-up Menu

Right click the mouse to open the pop-up menu including Setting

11. Web Operation

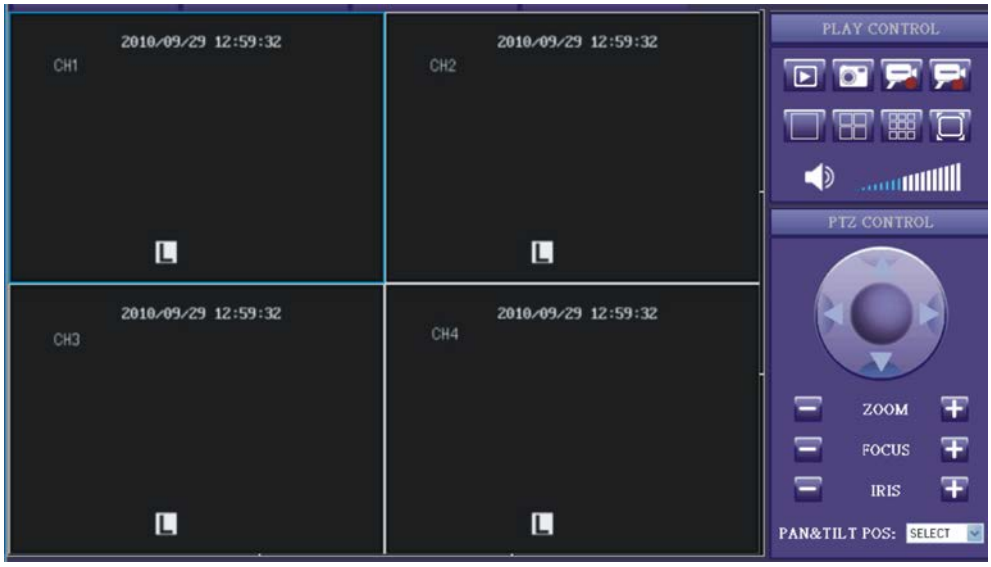
- Preface
  The Web Application Manager allows the user to remotely monitoring, playback, and backup through the DVR.
- System Requirement
  Operating System: Windows 2000, XP, Vista, Windows 7
  Web Browser: Internet Explorer
- Add-on Installation
  Please use the IE browser to login the IP address of DVR setting. If the user is the first time to login the page, the system will ask the user to download and install the add-on as you can see the page below. Please click the request to install the ActiveX add-on.


Web Application Manager - Windows Internet Explorer
http://114.46.33.130/
Favorites
Web Application Manager
This website wants to run the following add-on: 'FuDvrOcx.ocx' from 'SAFE AND POWER CO. LTD.'. If you trust the website and the add-on and want to allow it to run, click here...
If your browser does not support the ActiveX to download, please click here...
Done
Internet | Protected Mode: On

- User Interface
  - Login Page

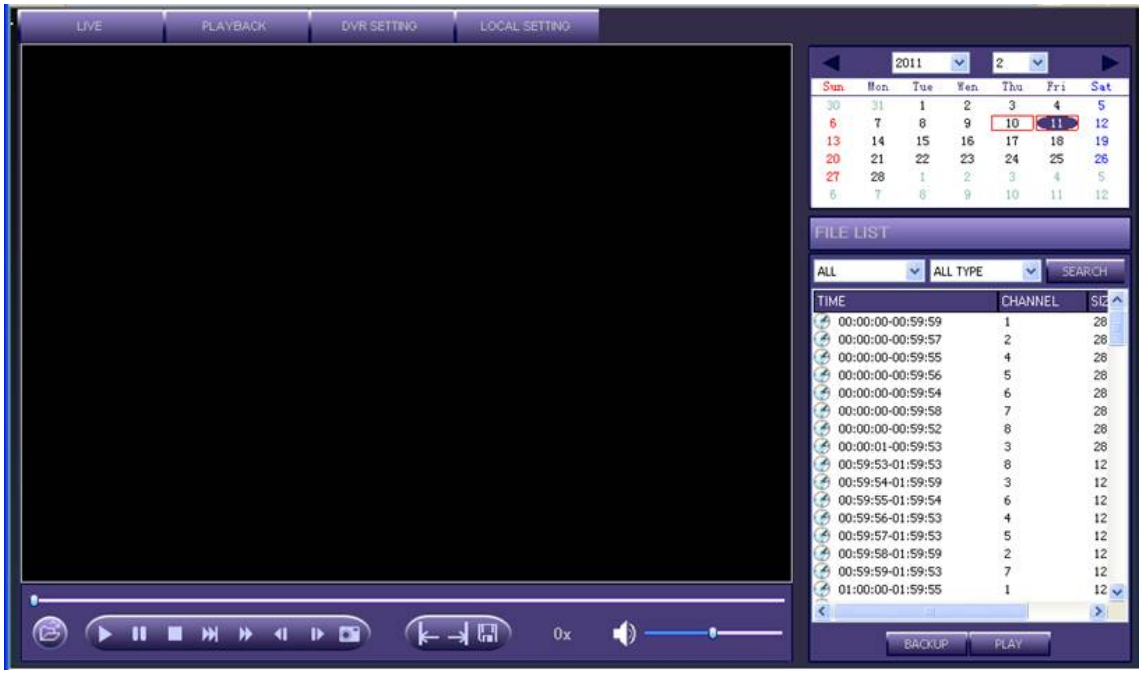
Please login user name and password from the setting of DVR end.

◆ Live mode



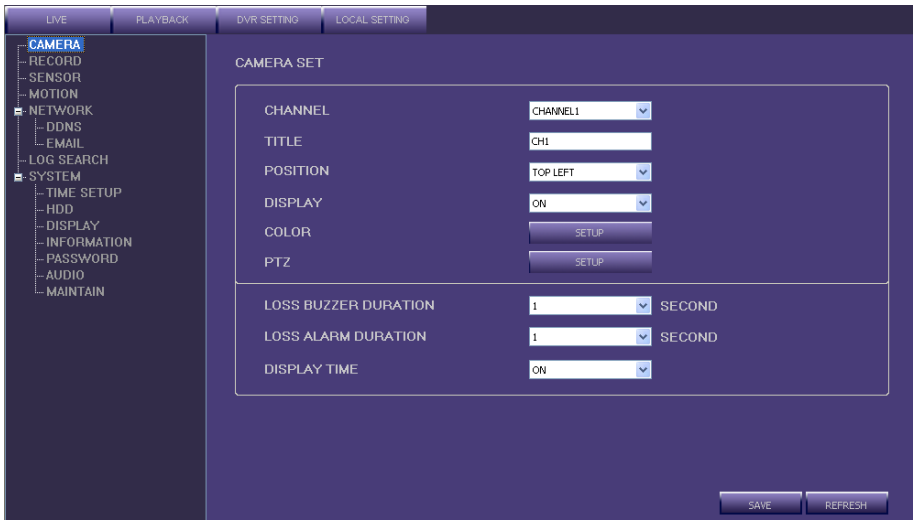
Start/Stop the Live Monitoring	Click
Record the Footage to Computer	Click Start recording or Stop recording (saving path: Setup/Information)
Snapshot the Image	Click to snap shot the image (saving path: Setup/Information)
Enable/Disable Audio	Click under the live viewing mode to enable the audio, and click to disable
Volume Control	Click
Switch Channel Display	Double click the channel to enter single channel display, double click again to return.
Single/4 Display	Click
Speed Dome Preset Point	
PTZ Control	Please refer “PTZ” for more information

◆ Playback



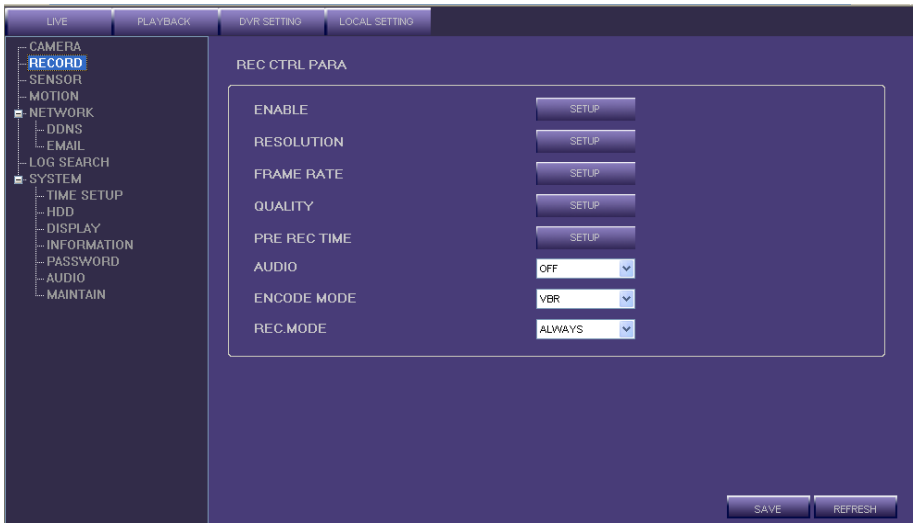
Event Search	(1) Select Date (2)Click ALL or ALL TYPE (3)Click SEARCH
Playback	Click on pop up file list
Fast Forward	Click “Fast Forward” (Speed: 2X, 4X, 8X, 16X)
Rewind	Click “ Rewind” (Speed: 1/2, 1/ 4X, 1/ 8X, 1/ 16X)
Step Forward	Click “Previous”or “Step”
Snapshot	Click to capture.
Mark start time	Click
Mark end time	Click
Backup	Click
Backup	Click “Backup”, backup path: Setup→ System Setting→ Backup Location

- DVR Setting
  - Cameras



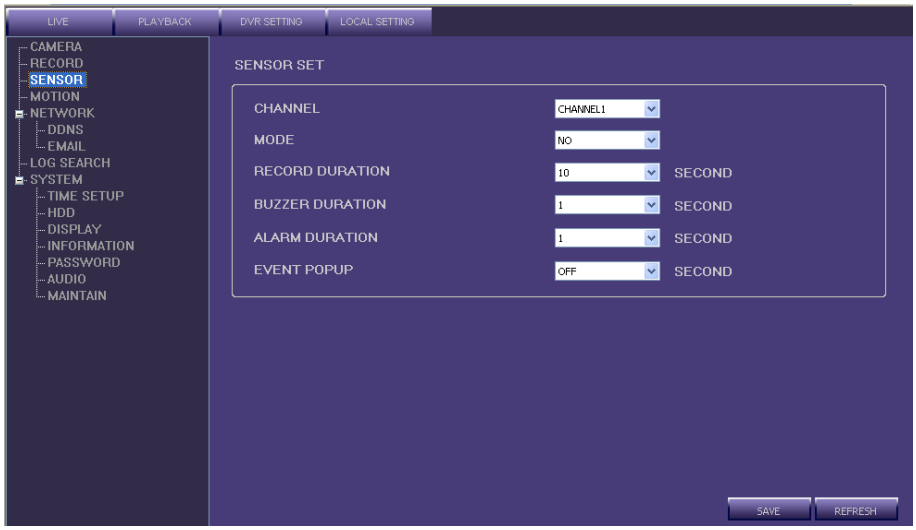
Please refer “Camera Setup” for more information

  - Record



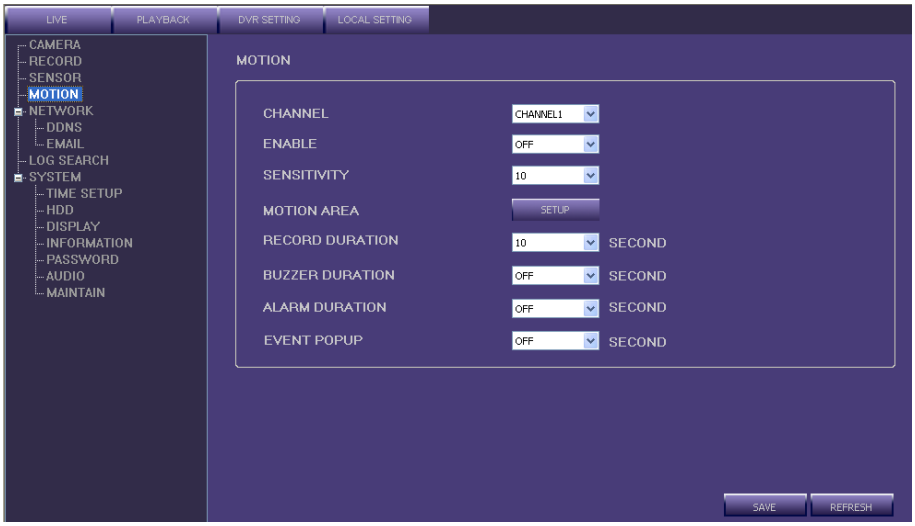
Please refer “Record Setup” for more information.

  - Alarm



Please refer “Alarm Setup” for more information.

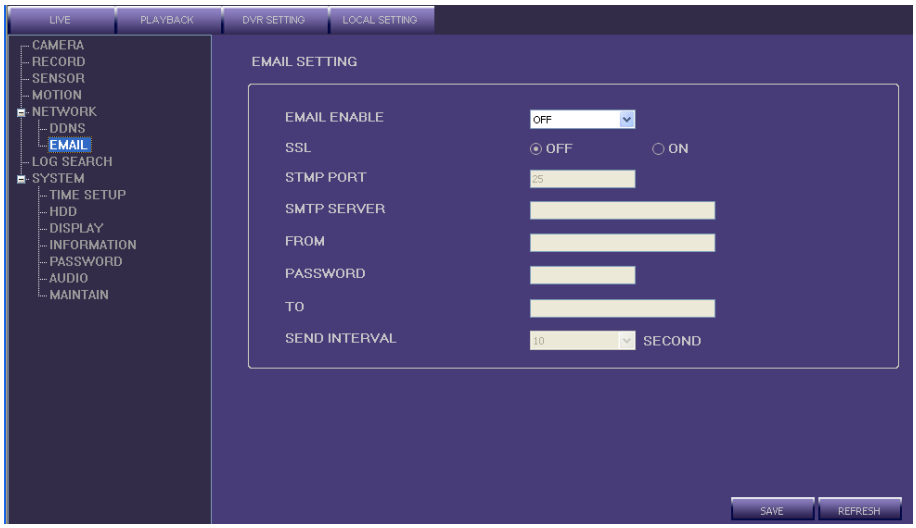
- MotionDetection



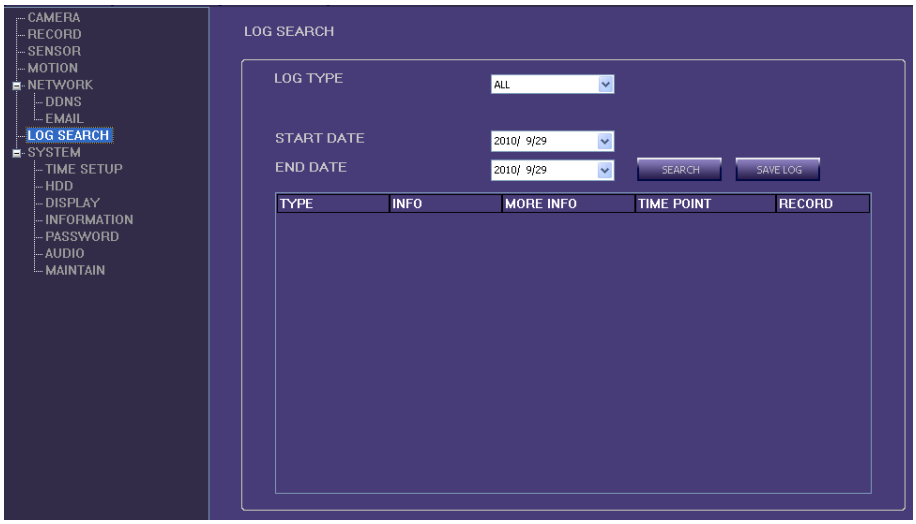
Please refer “Motion Detection” for more information.

- Network setting

E-MAIL

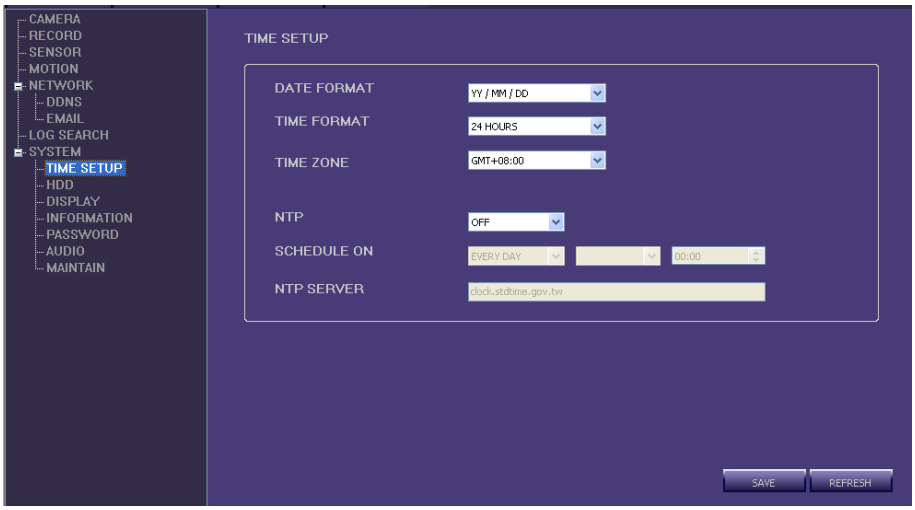


- Log search



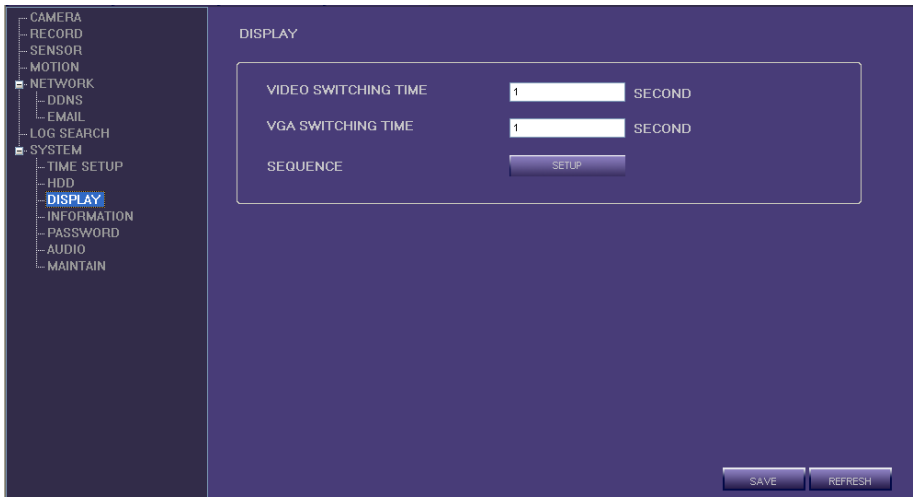
◆ System Setting

- Date/Time Setting

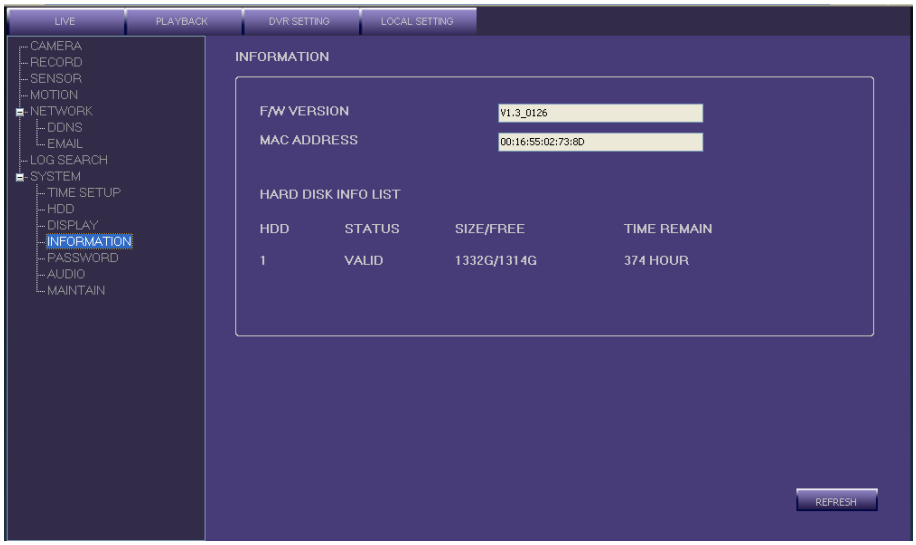


- HDD Management

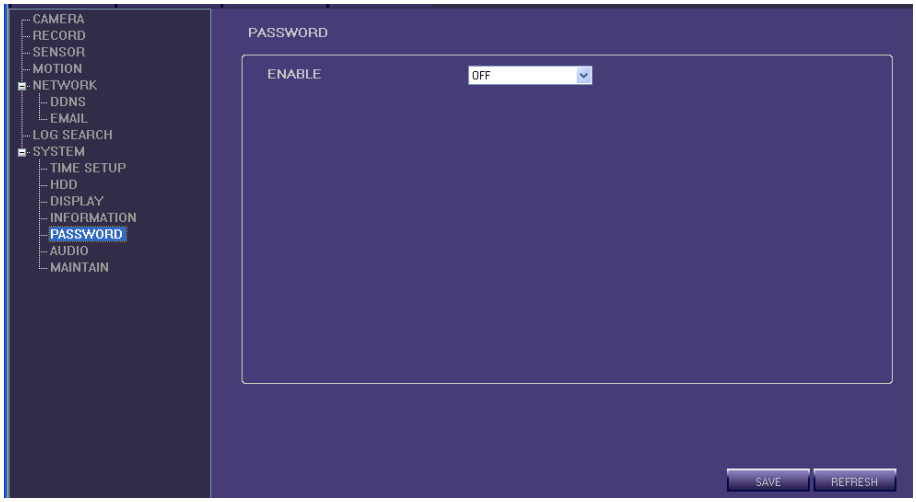
- Display



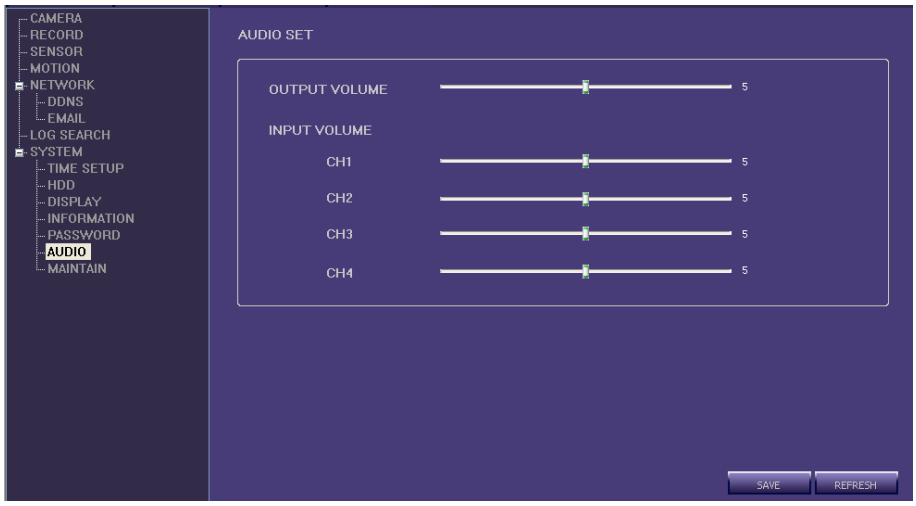
- System Information



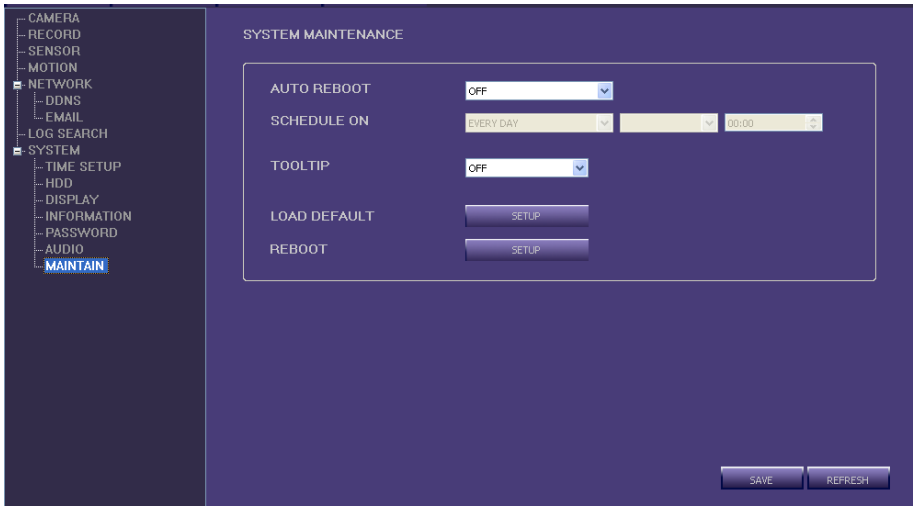
- Account/password



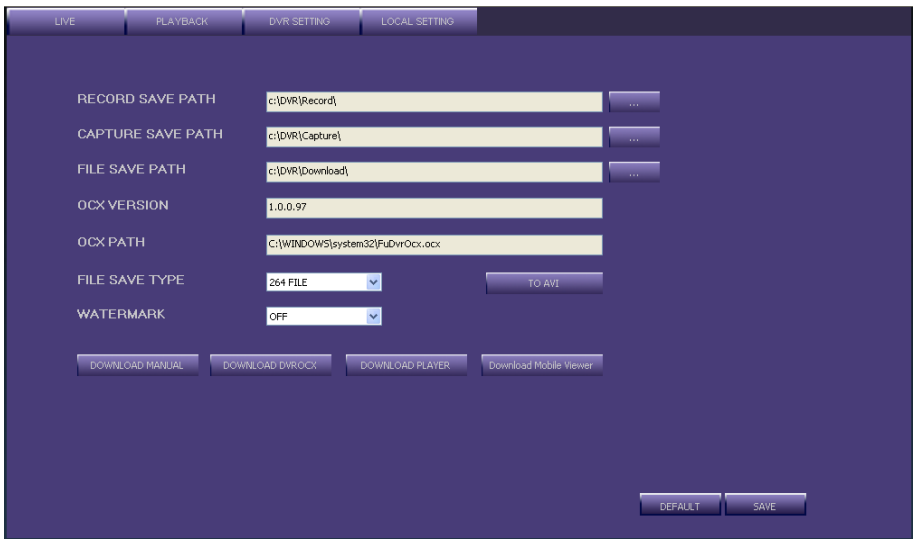
- Audio Setting



- System Maintenance



◆ Host setting



12. Appendix

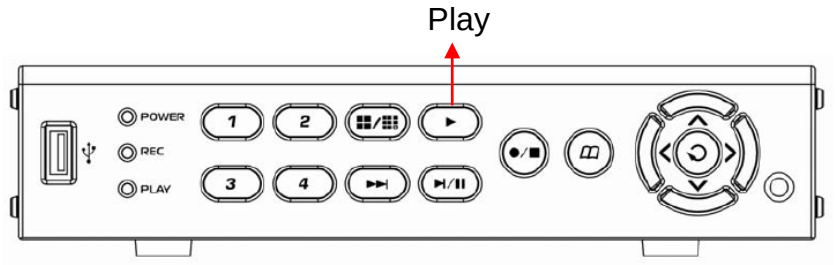
This appendix will show you how to do the basic operation step-by-step on search, playback, backup, network setup, email setup, and DDNS setup.

12.1 How to search and playback the footage step-by-step?

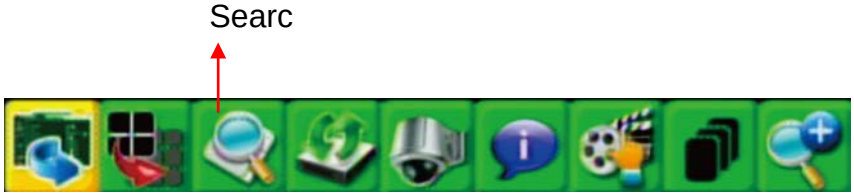
Step 1. Press the SEARCH button

There are two ways to enter the search menu.

Option 1: If you are using the front panel or remote control, please press the “Play” button to enter the search menu.

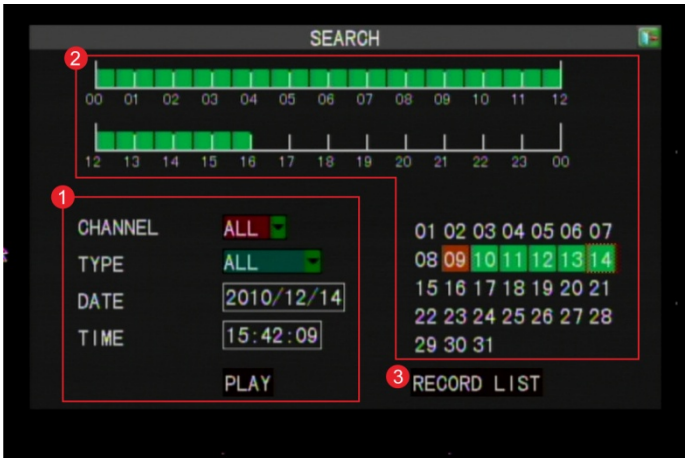


Option 2: If you are using USB Mouse, please click right button of the mouse to open the quick menu bar, and press the “Search” option from the quick menu bar to enter the search menu.

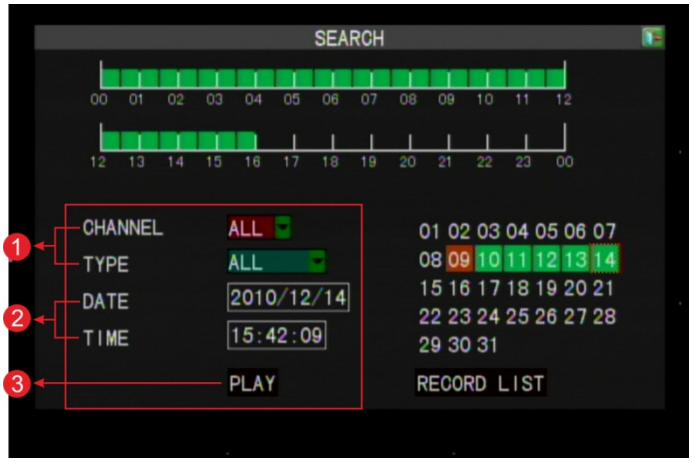


Step 2. Select the date & time to playback the footage.

Once you enter the search menu, you can have 3 optional selections to playback the footage as the picture below.



1. Date and Time Search

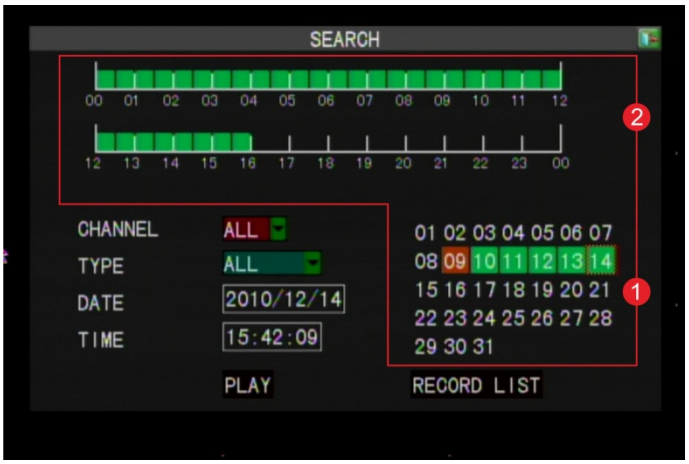


1.1 Select the channel and type of event that you wish to playback.

1.2 Enter the date & time that you wish to search.

1.3 Click PLAY button to playback.

2. Calendar Search



2.1 Select the specified date from the calendar selection,

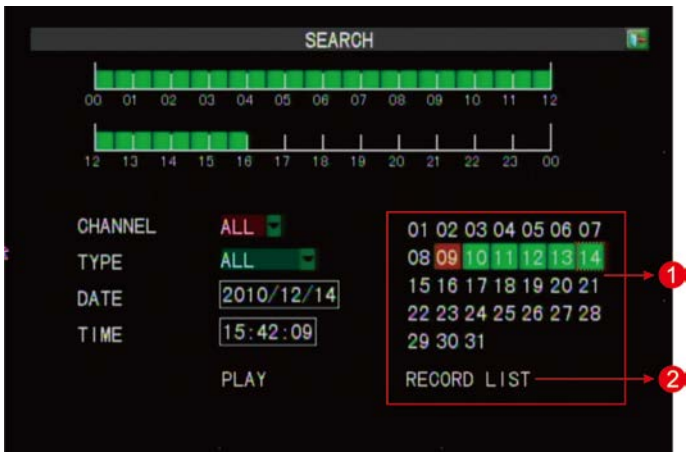
2.2 Select the specified time from the 24hours time bar selection.

Note:

- No data: NO color; data of alarm trigger: Red color; normal record data: Green color
- Each hour is divided into 2 time frames, 1st and 2nd half of the hour, 00min:00sec to 30min:00sec and 30min:00sec to 60min:00sec respectively.
- Select the first half of the time frame of the date, the playback will start from 00 mins: 00 sec. Select the second half of hour frame under the date, the playback will start from 30mins:00sec. if there is no data on the date, please try to search from the record list.

2.3 Once you select the specified date and time, click PLAY to playback

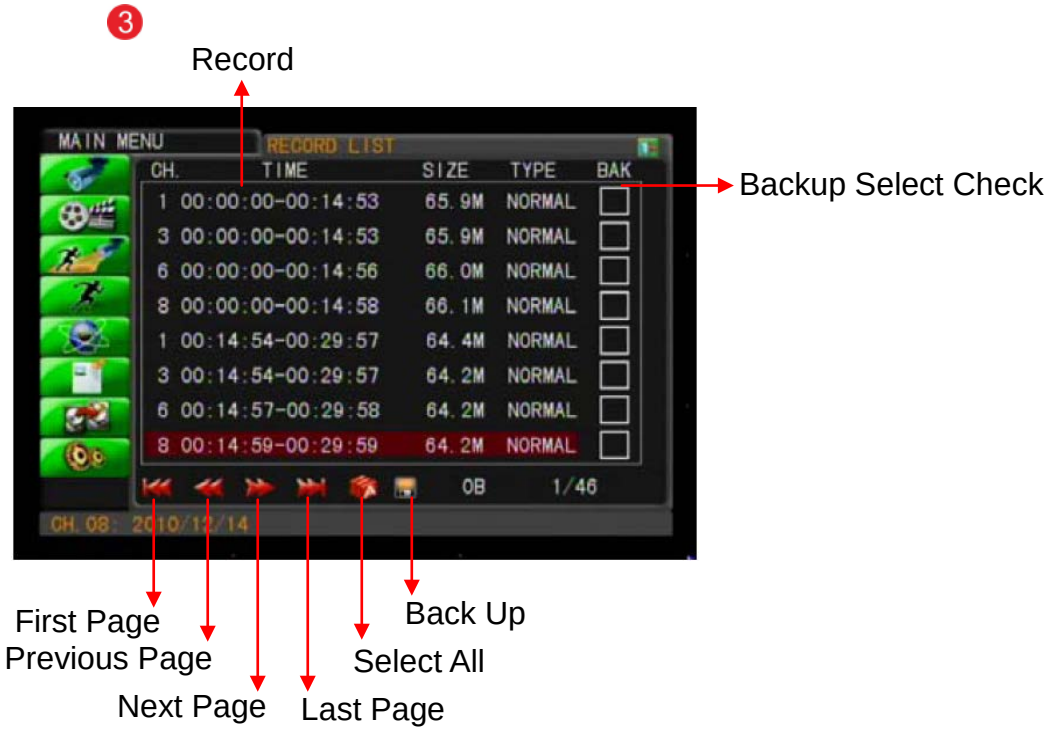
3. Record List Search



3.1 Select the date you wish to search.

3.2 Click RECORD LIST to enter record list selection menu.

3.3 Double click the event from the list to playback.



Step 3. Channel Selection.

Check on the channels you wish to playback, and then click PLAY.

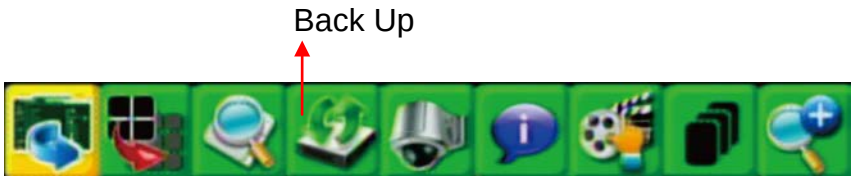
8CH DVR

12.2 How to backup the footage step-by-step?

Step 1. Click the BACKUP button

There are two ways to enter the BACKUP menu.

Option 1: Click the right button of the mouse to open the quick menu bar, and press the “BACKUP” option to enter the search menu.



Option 2: Click the right button of the mouse to open the quick menu bar and select MAIN MENU. Press the “Backup” option from the main menu.

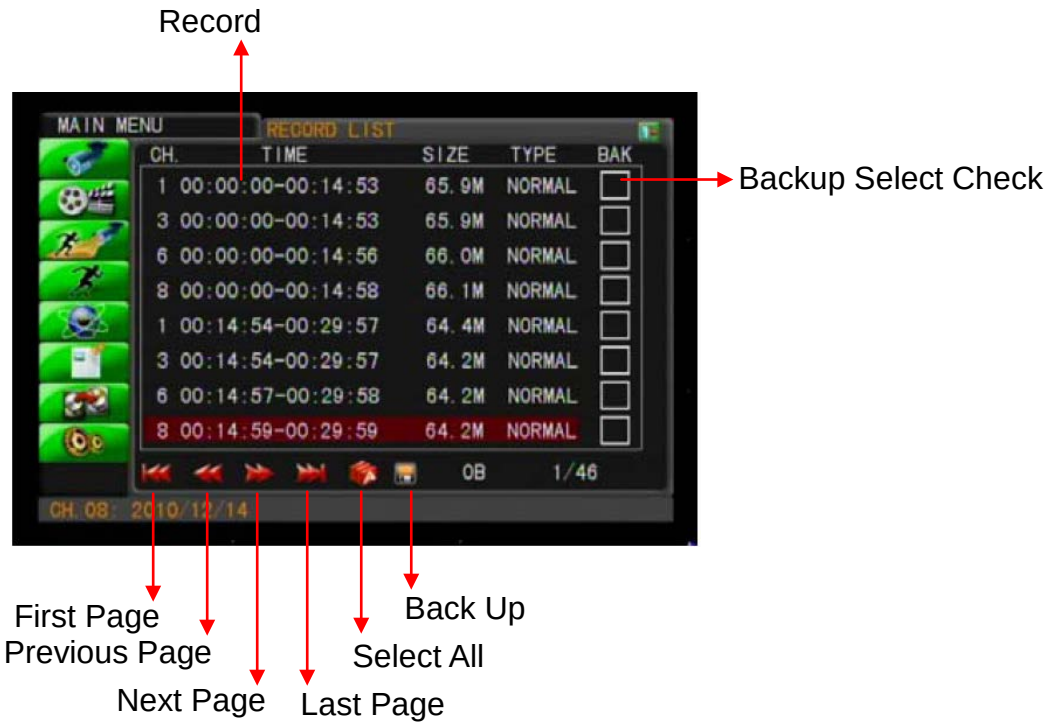
Step 2. Specify the desired channels, type, start date and time, and end date and time, then press SEARCH.

Step 3. Select channels to backup.

3.1 Double click the event to preview the footage before backup.

3.2 Select the events you wish to backup by marking on “BAK” check box.

3.4 Click the backup button to storage device page.



Step 4. Choose the storage device.

4.1 Plug in the USB flash memory stick into the USB port of DVR.

4.2 Once the DVR detects the USB flash memory stick, it will show the data size and free space on the screen.

4.3 If there is lack of free space, you may try to format the USB flash memory stick first by clicking on FORMAT USB DISK

4.4 Once everything is ready, click on BACKUP to proceed.

Step 5. Start Backup the file.

Once you click the “BACKUP” button, the DVR will start to backup. When the processing bar reaches to 100%, the backup process is completed.

12.3 How to setup the Network step by step?

Decide your network environment

In Network setting, you can choose the connection type from Static, DHCP, or PPPoE(which allow you to dial up by ADSL modem or 3G dongle). Below is an explanation of how you can configure your DVR to fit your network environment.

12.3.1 Static

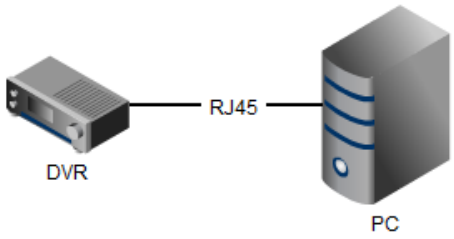
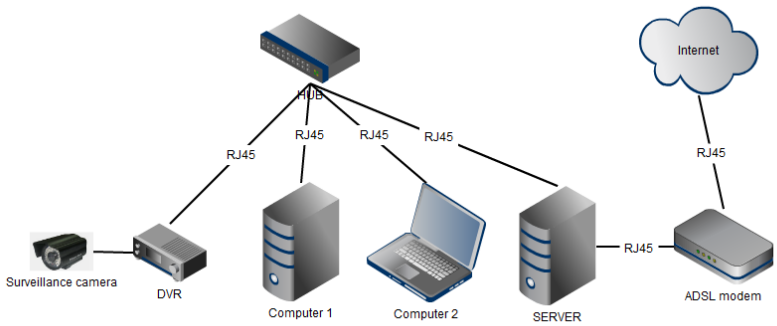
Each network device has its own IP address. An IP address is like a doorplate of the device, helping data to be delivered to the correct destination. An IPv4 address contains 32 bits, which are divided into four parts, each part separated by a dot, such as 255.255.255.0.

The following three blocks of the IP address space are reserved for private Internets (local networks):

- 10.0.0.0~10.255.255.255
- 172.16.0.0~172.31.255.255
- 192.168.0.0~192.168.255.255

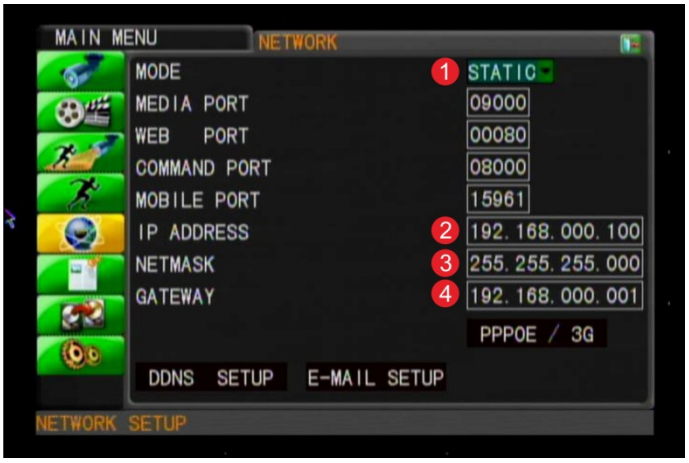
In Static mode, you have to assign the IP address for each device (e.g. your DVR and PC)

Reference Network environment for Static IP situation

	Direct connection: DVR to PC (Home/Small office users)
	Multi-connection through HUB/SWITCH/Router (Small Office users)

Here is an example of how to set up connection between the DVR and your PC.

Step 1: Set your DVR network mode to static mode



1. Change the connection type to “STATIC” in DVR’s network setting
2. Assign the IP address to the DVR

Note: Be sure not to set up a duplicated IP address for the DVR. For example, if you assign 192.168.0.100 to the PC, please change the IP address of the DVR to 192.168.0.101

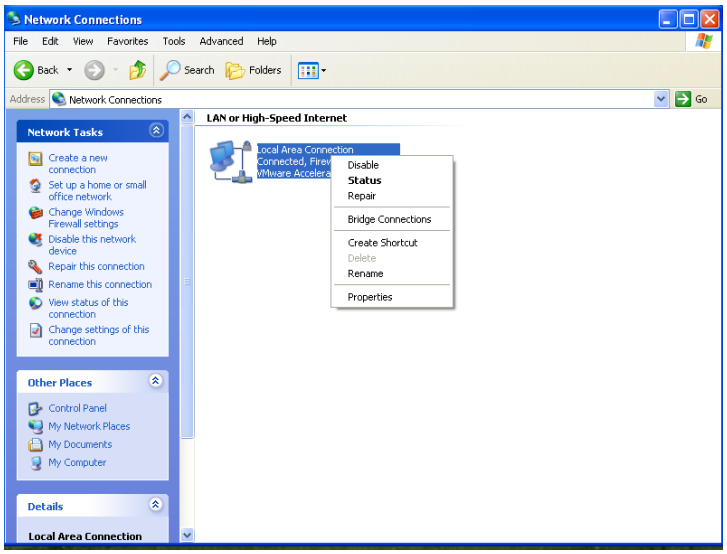
3. Set the Netmask of the DVR: ***The address must be the same as the PC’s setting.***
4. Set the Gateway of the DVR: ***The address must be the same as the PC’s setting.***

Step 2: Modify your PC’s network setting to correspond to the DVR

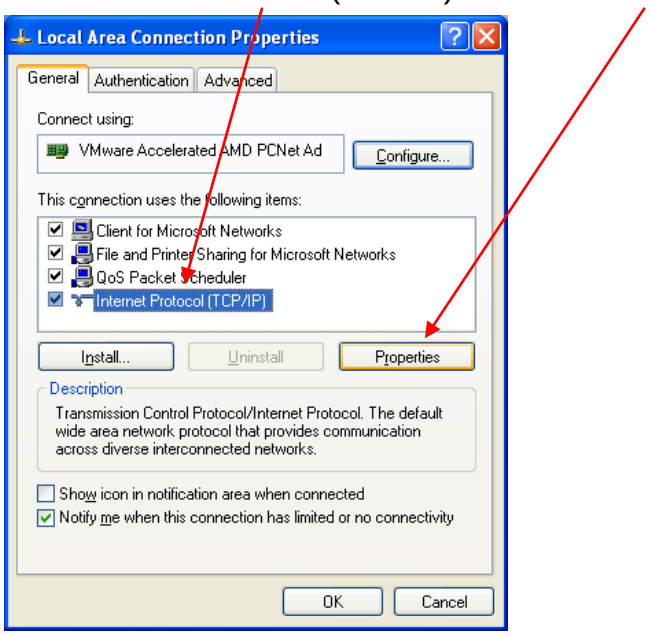
For WINDOWS XP:

Start→Control Panel→ Network and Internet Connections→Network Connections

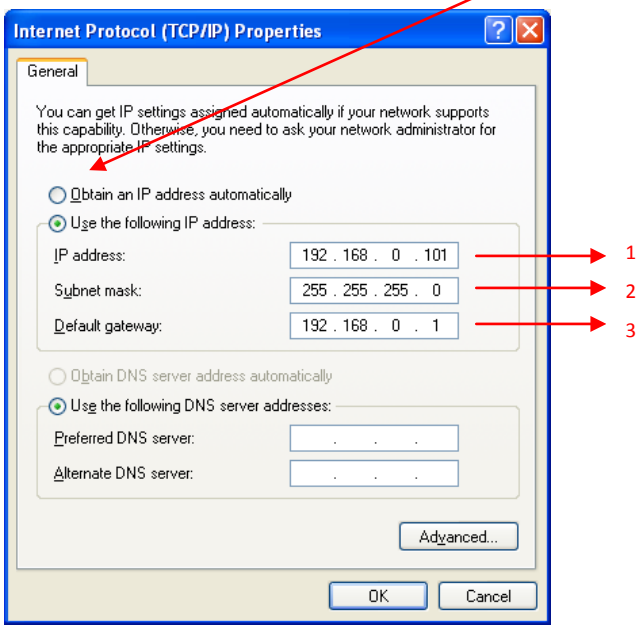
Find your network adaptor and click the right button and choose “Properties”



Find “Internet Protocol (TCP/IP)” and click the “Properties” to enter the setting menu



In the following menu, choose “Use the following IP address” to set up IP address manually


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 101
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel
1
2
3

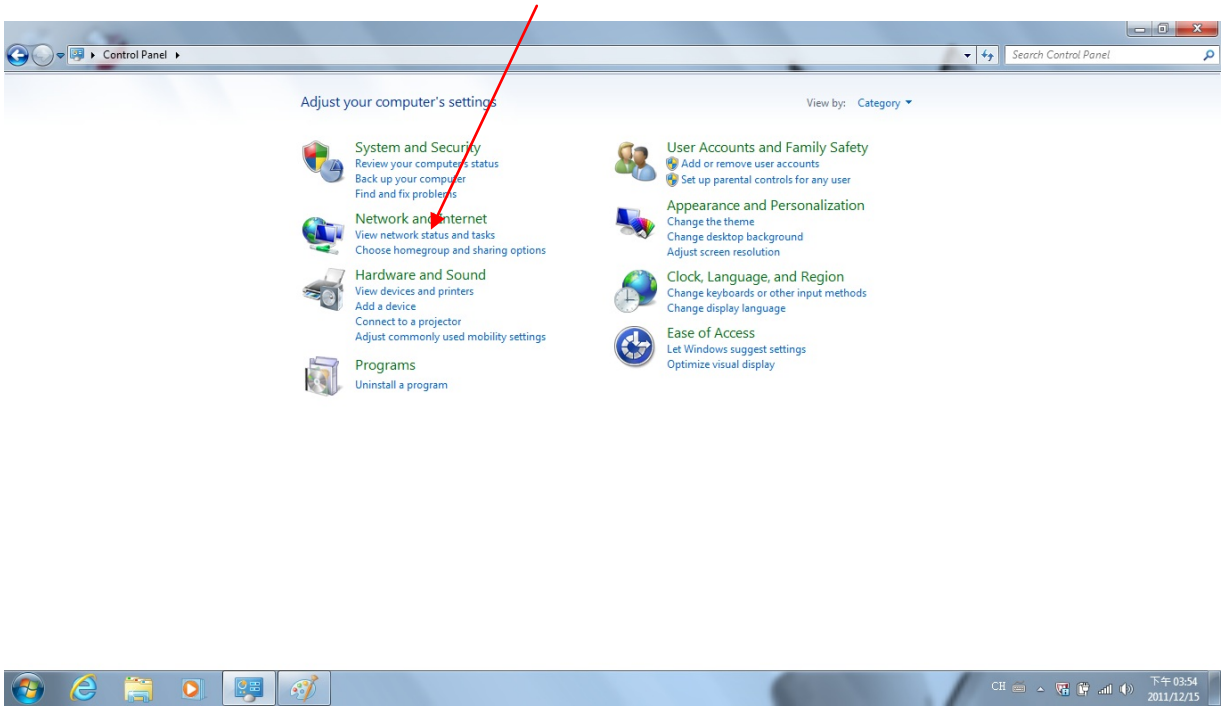
1) Enter the IP address for your PC. Be sure not to set up a duplicated IP address with any other network devices.

2) Enter Subnet mask address. This address should correspond to the Netmask address of your DVR.

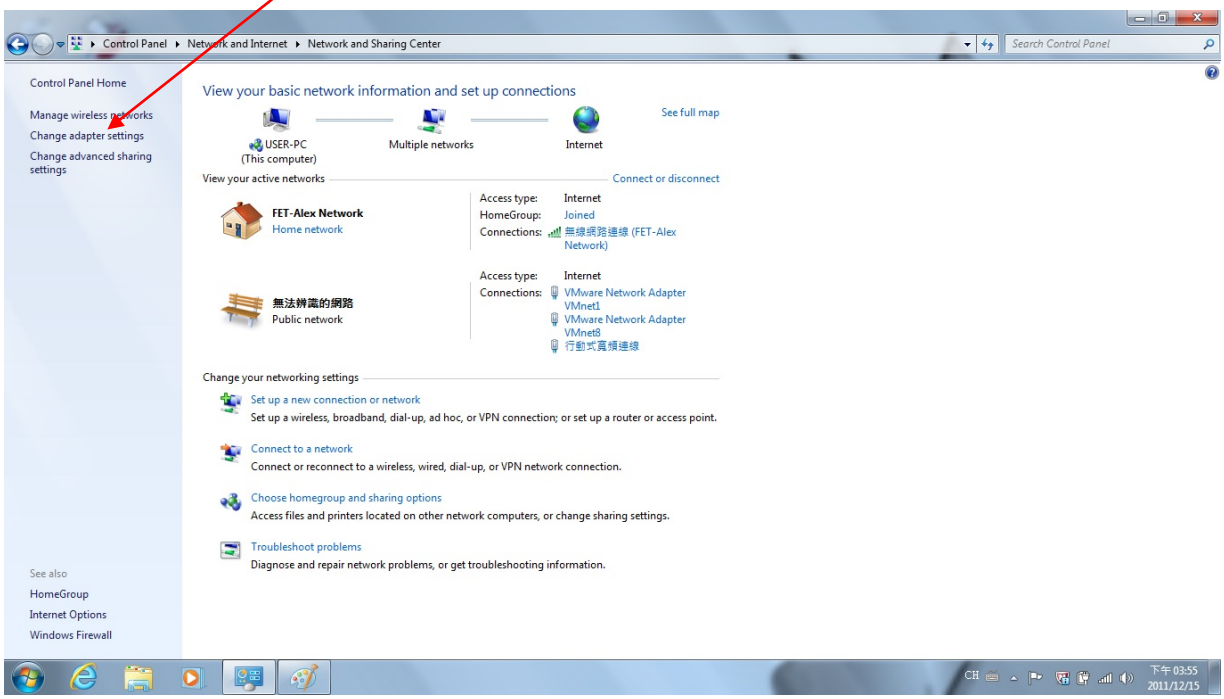
3) Enter Default gateway address. This address should correspond to the Gateway address of your DVR.

For WINDOW 7

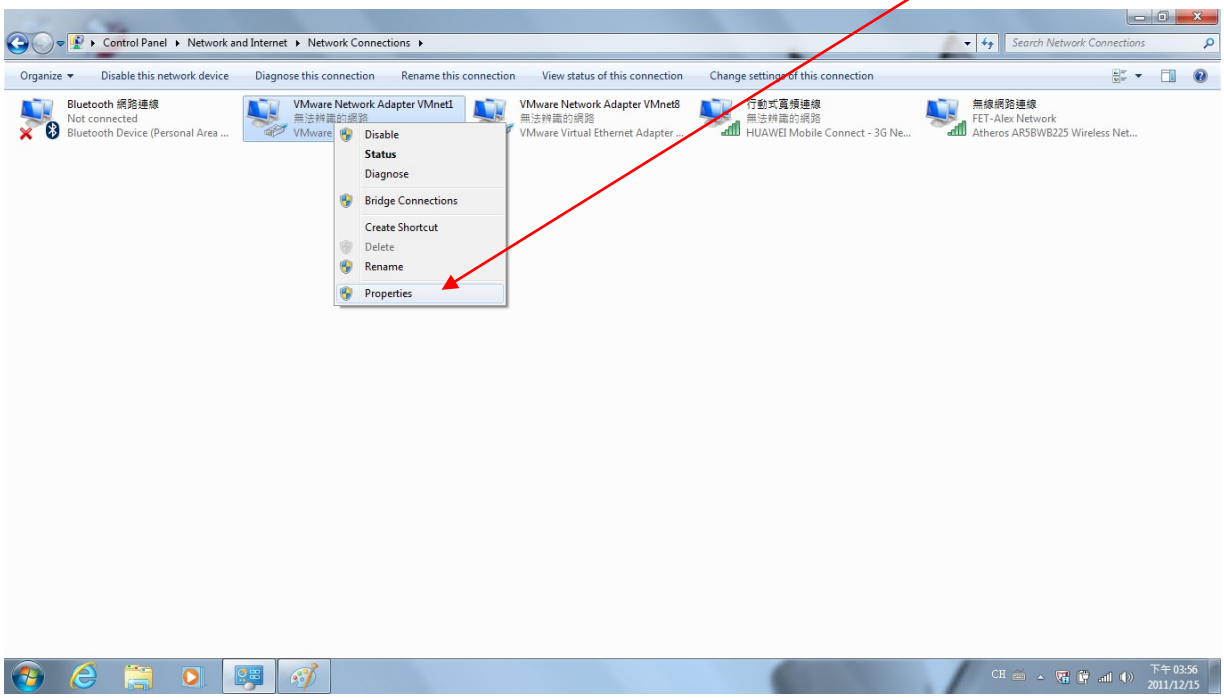
Start→Control Panel→View network status and tasks→click and enter the next menu



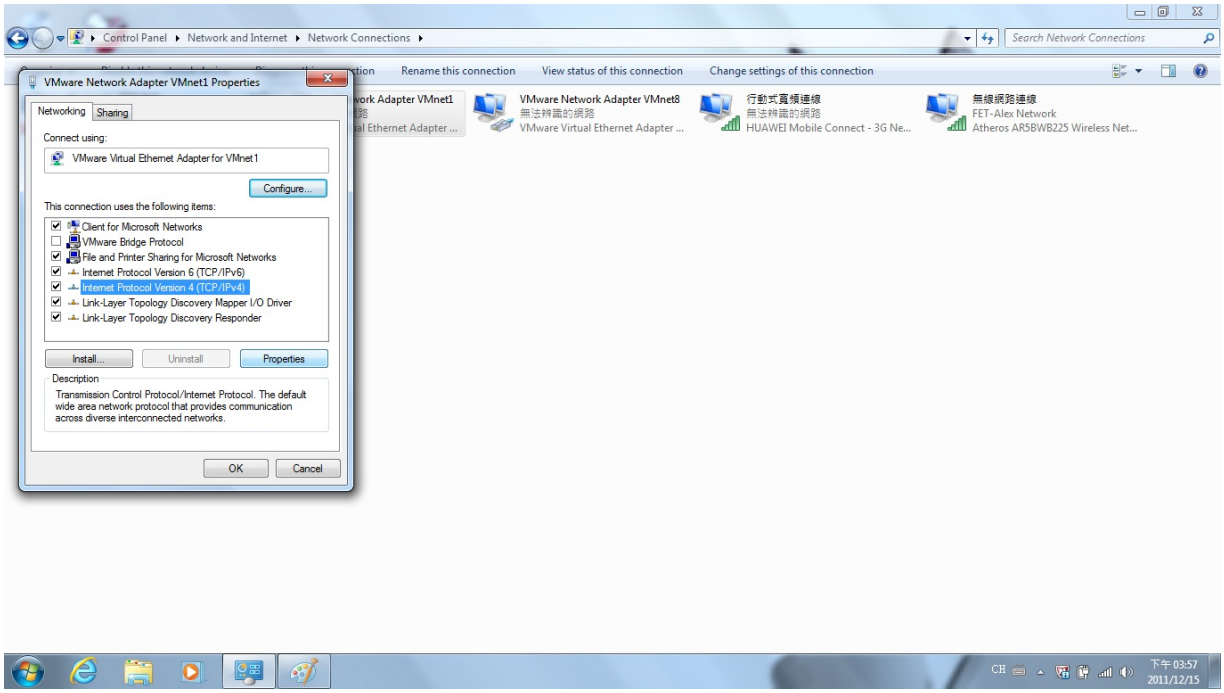
Click “Change adapter settings” at the left column


Control Panel ▸ Network and Internet ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Manage wireless networks
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
USER-PC
(This computer)
Multiple networks
Internet
View your active networks
Connect or disconnect
FET-Alex Network
Home network
Access type: Internet
HomeGroup: Joined
Connections: 無線網路連線 (FET-Alex Network)
無法辨識的網路
Public network
Access type: Internet
Connections: VMware Network Adapter VMnet1
VMware Network Adapter VMnet8
行動式寬頻連線
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall

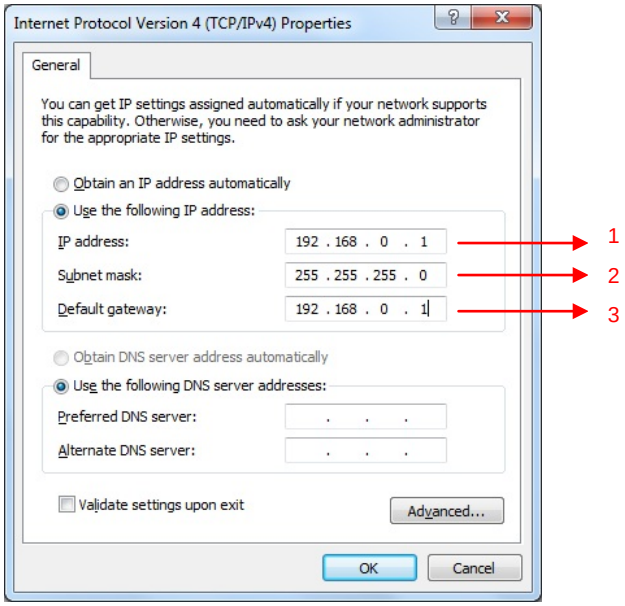
Find the network adapter and right click the mouse button and click the “Properties” to enter the setting menu



Find Internet Protocol Version 4(TCP/IPv4) and click “Properties”



In the following menu, choose “Use the following IP address” to set up IP address manually

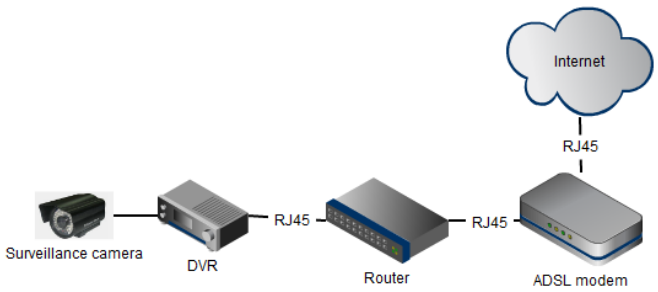

Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 0 . 1
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel
1
2
3

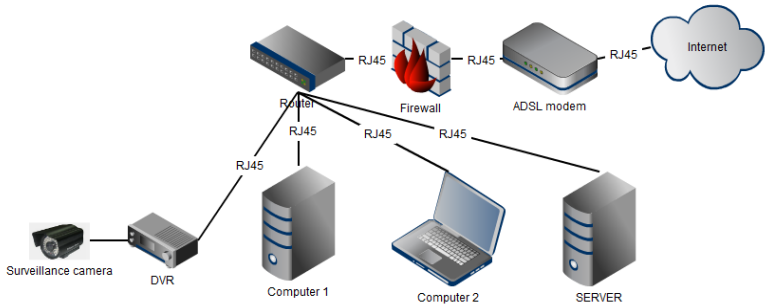
1) Enter the IP address for your PC. Be sure not to set up a duplicated IP address with any other network devices.
2) Enter Subnet mask address. This address should correspond to the Netmask address of your DVR.
3) Enter Default gateway address. This address should correspond to the Gateway address of your DVR.

12.3.2 DHCP

DHCP (Dynamic Host Configuration Protocol) automatically assigns a valid IP address to a network device on the Internet. Allocating a fixed IP address for each device will result in idle IP addresses when the devices are not in operation. Therefore, DHCP can make more efficient use of the IP addresses. To use this feature, you have to have a PC or router to be set as DHCP server to provide the service.

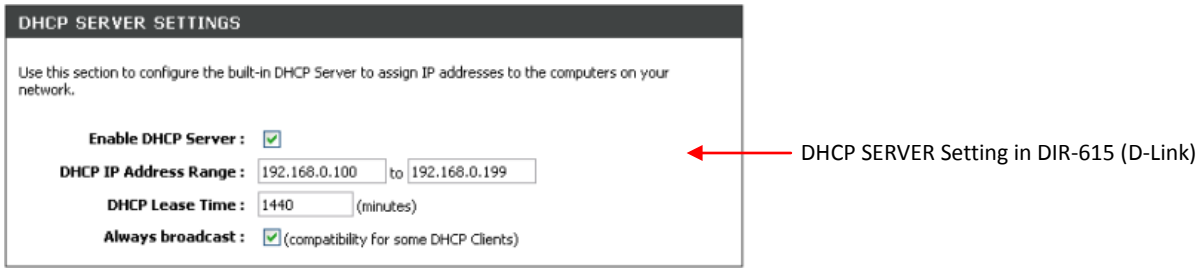
Reference Network environment for DHCP situation

	DHCP connection through Router (Home/small office)

	DHCP connection through Router/Server (Corporation)

Here is an example of how to set up connection between the DVR and your PC in DHCP mode

Step 1: Set up your router/DHCP server. For details, please consult your MIS staff or check the manual of the router.



Step 2: Set your DVR network mode to DHCP mode

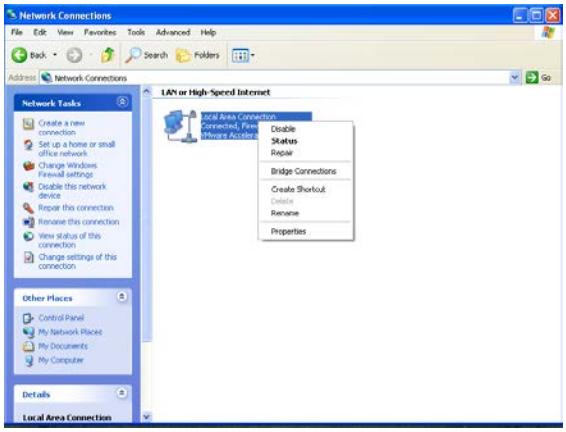
1. Change the connection type to “DHCP” in DVR’s network setting
2. If the router is correctly set, the DVR should be able to get the IP address from the router automatically.

Step 3: Modifiy your PC’s network setting to DHCP mode

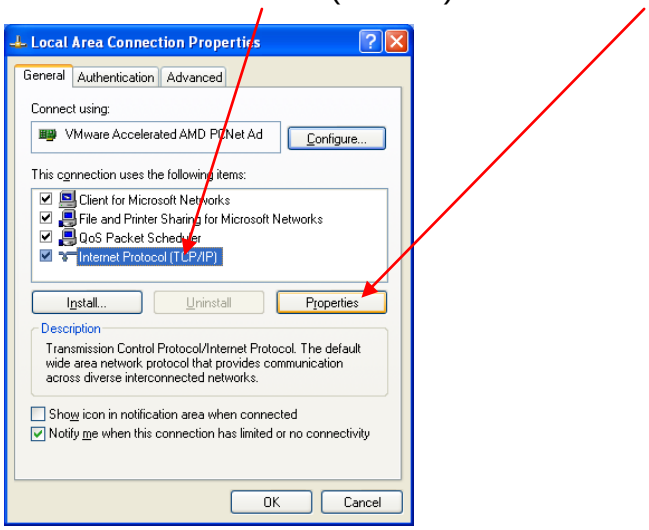
For WINDOWS XP:

Start→Control Panel→ Network and Internet Connections→Network Connections

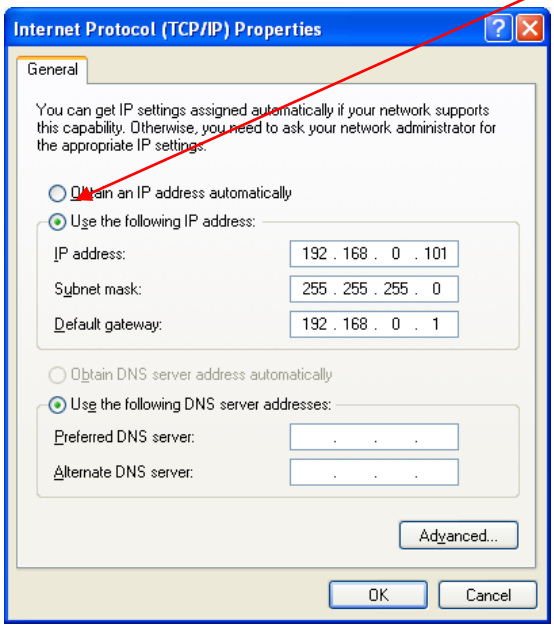
Find your network adaptor and click the right button and choose “Properties”



Find “Internet Protocol (TCP/IP)” and click the “Properties” to enter the setting menu

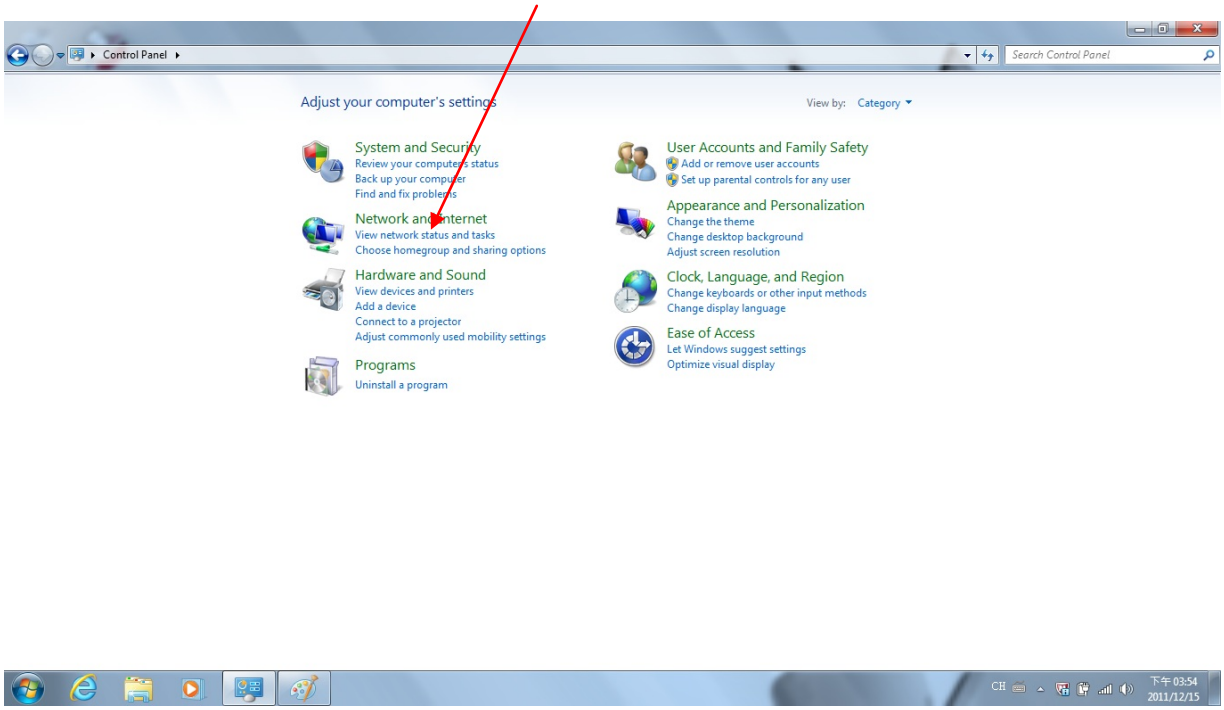


In the following menu, choose “Obtain an IP address automatically”

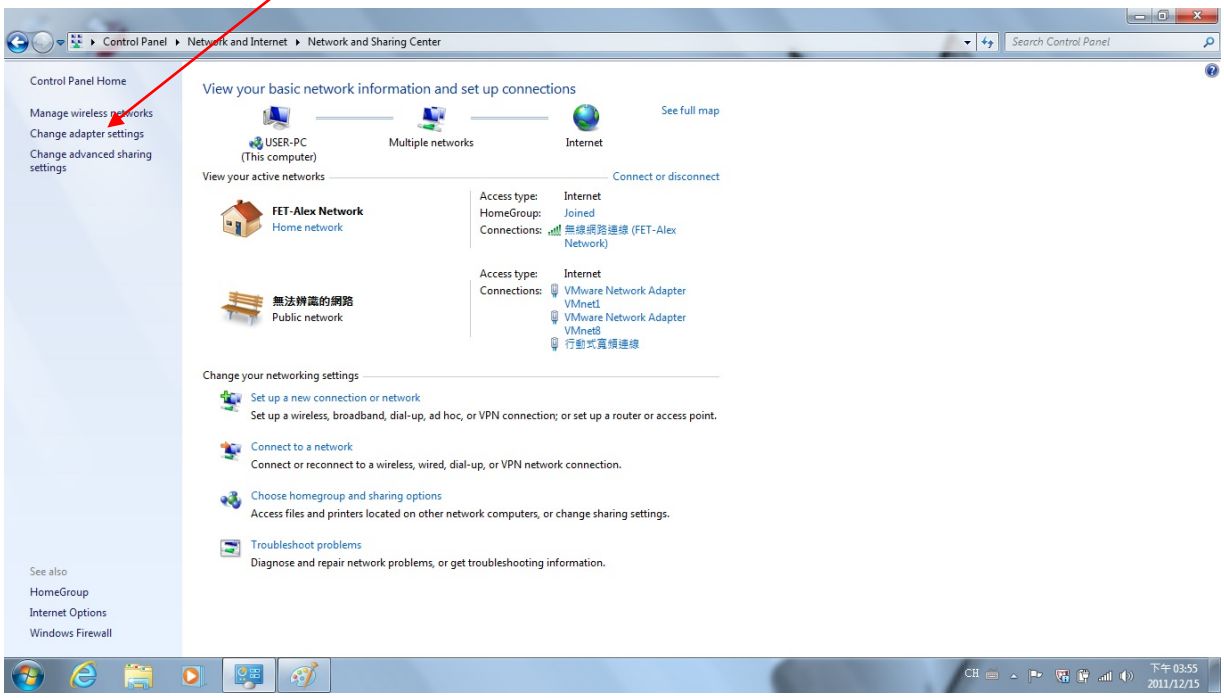

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 101
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

For WINDOW 7

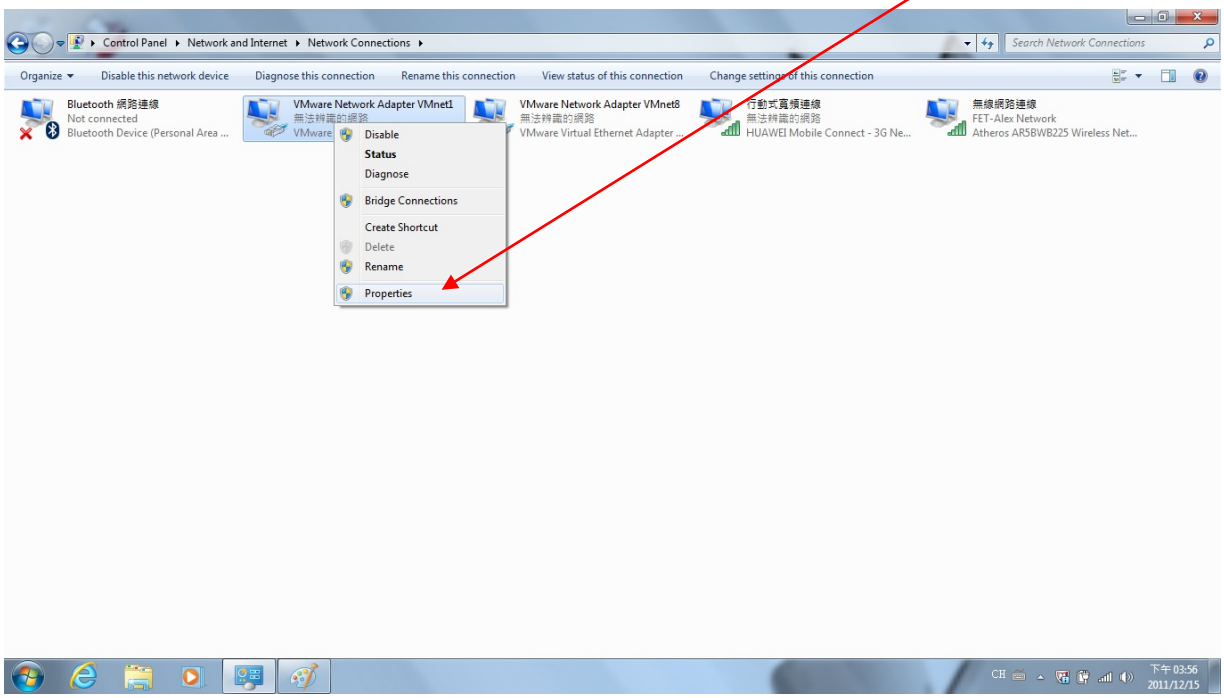
Start→Control Panel→View network status and tasks→click and enter the next menu



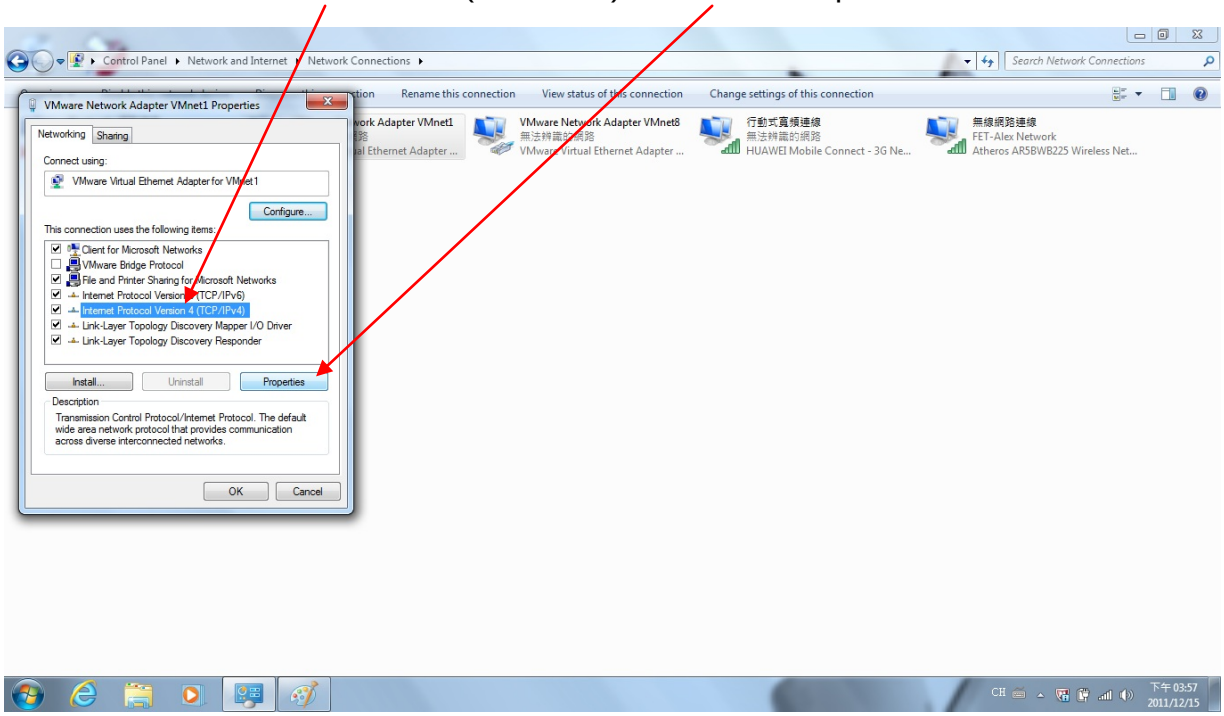
Click “Change adapter settings” at the left column


Control Panel ▸ Network and Internet ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Manage wireless networks
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
USER-PC
(This computer)
Multiple networks
Internet
View your active networks
Connect or disconnect
FET-Alex Network
Home network
Access type: Internet
HomeGroup: Joined
Connections: 無線網路連線 (FET-Alex Network)
無法辨識的網路
Public network
Access type: Internet
Connections: VMware Network Adapter VMnet1
VMware Network Adapter VMnet8
行動式寬頻連線
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall

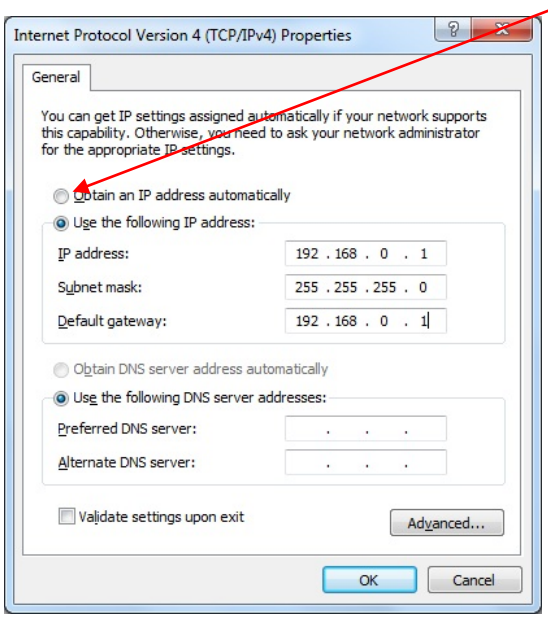
Find the network adapter and right click the mouse button and click the “Properties” to enter the setting menu



Find “Internet Protocol Version 4(TCP/IPv4)” and click “Properties”



In the following menu, choose “Obtain an IP address automatically”


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 1
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

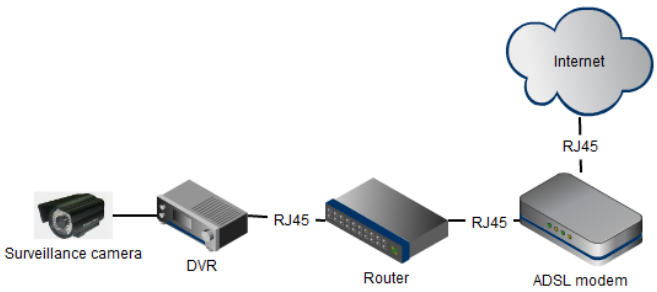
If the router/DHCP server is set correctly, you should be able to connect to DVR from your PC successfully.

Note: The IP address assigned to DVR would be varied when the router restarts or after a period of time. If you want to assign a fixed IP address to the DVR, please check with your MIS staff or the manual of the router.

12.3.3 PPPoE

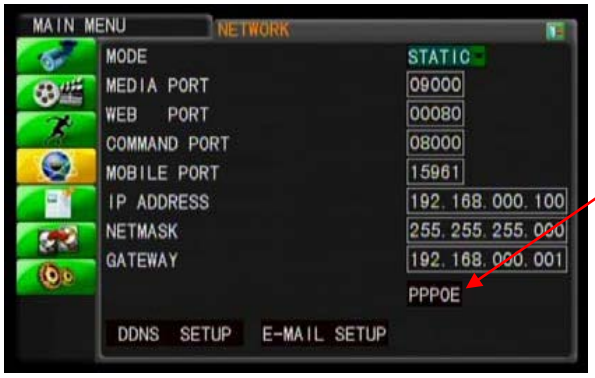
PPPoE (Point-to-Point Protocol over Ethernet) is a protocol that enables connections between a DSL modem and the Internet. This service is provided by ISP (Internet Service Provider).

Reference Network environment for PPPoE situation

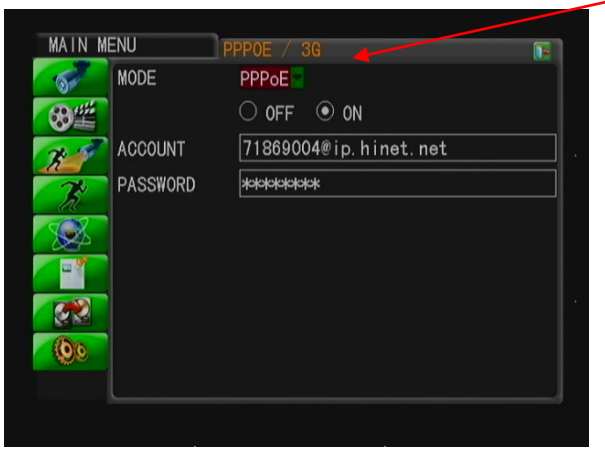
	PPPoE connection through Hub/Switch/Router

How to set up a PPPoE connection for your DVR?

Step 1: In Network setting menu, set the mode to “STATIC” and click the “PPPOE” to enter the setting menu.



Step 2: In PPPoE/3G setting menu, set the mode to “PPPoE” and choose “ON” to enable it.

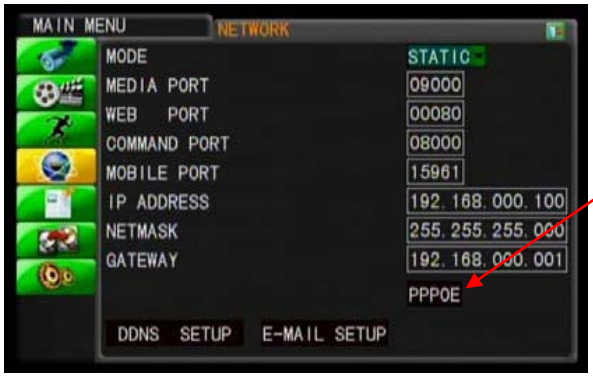


Note: for account and password information, please check with your internet service provider.

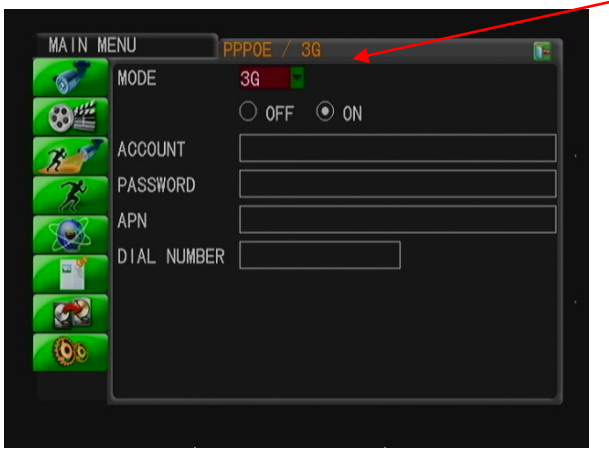
12.3.4 How to set up a 3G connection for your DVR?

(Note: for supported USB 3G dongle, please check with the manufacturer for latest information).

Step 1: In Network setting menu, set the mode to “STATIC” and click the “PPPOE” to enter the setting menu.



Step 2: In PPPoE/3G setting menu, set the mode to “3G” and choose “ON” to enable it.



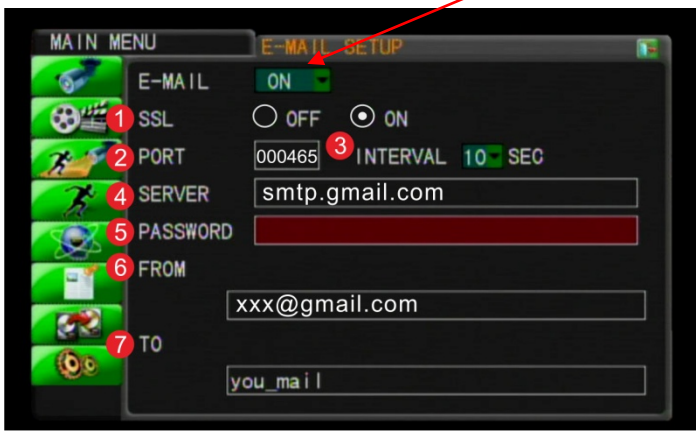
Note: for dial up information, please check with your telecom company for details.

12.4 Email Setup

In DVR, you can set up an email reminder for situations like motion, alarm, etc. In the following section, we will illustrate how to set it up by using Gmail.

Step 1: In Network setting menu, click on “E-MAIL SETUP” and enter the following menu

Step 2: Enable the email function by choosing “ON” in E-mail Tab



Step 3:

①SSL: (Secure Sockets Layer) This is used to secure the internet transmission. For Gmail, you should turn this on. For other email settings, please consult your email service provider.

②Port: Default value is 25 and is commonly used for most email server. For Gmail, please set the value to 00465

③Interval: The time interval between each email being sent

④Server: your email server. Please noted that this must be your outgoing email server. For Gmail, use ***smtp.gmail.com***

⑤Password: your password for your email address

⑥From: Your email address as the mail sender. In Gmail, it’s like ***xxxx@gmail.com***

⑦To: The email recipient

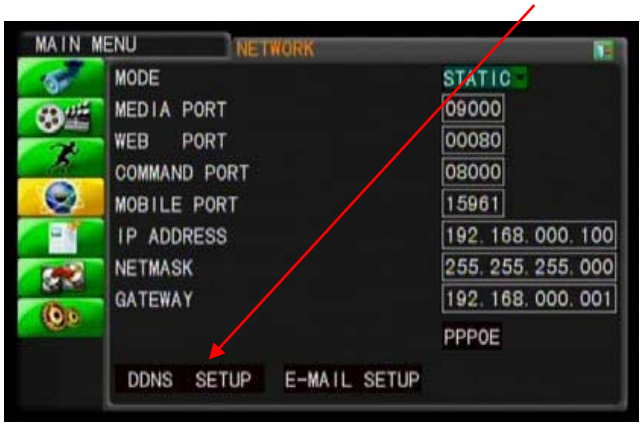
Note: Not every email server provide the service to relay the email to your email recipient. Please consult your email service provider for more details.

12.5 DDNS Setup

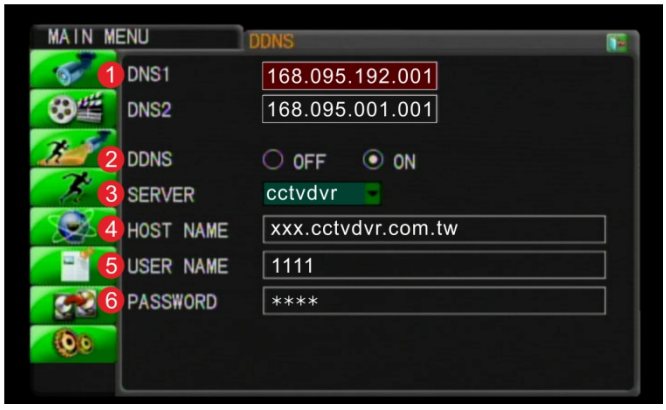
DDNS: (Dynamic DNS). It is an service to provide the updating in real time of Internet Domain Name System (DNS) name servers to keep up to date the active DNS configuration of their configured hostnames, addresses and other information.

In DVR, you can apply a DDNS service for a dynamic IP address. This will help you to use a fixed site address (such as name.idv) to find your DVR so you don't have to remember the floating IP address (such as 192.168.111.143)

To set up the DDNS service, click on "DDNS Setup" in Network setting menu



DDNS Setting menu



①DNS1&2: This is used for your DNS server. The default value is 168.095.192.001 and 168.095.001.001. If you don't your DNS server provider, just use the default values for them.

②DDNS: To enable the DDNS service. Please select "ON" to enable it.

③DDNS SERVER: You can choose DDNS service provider from *3322, dyndns, or cctvdvr*

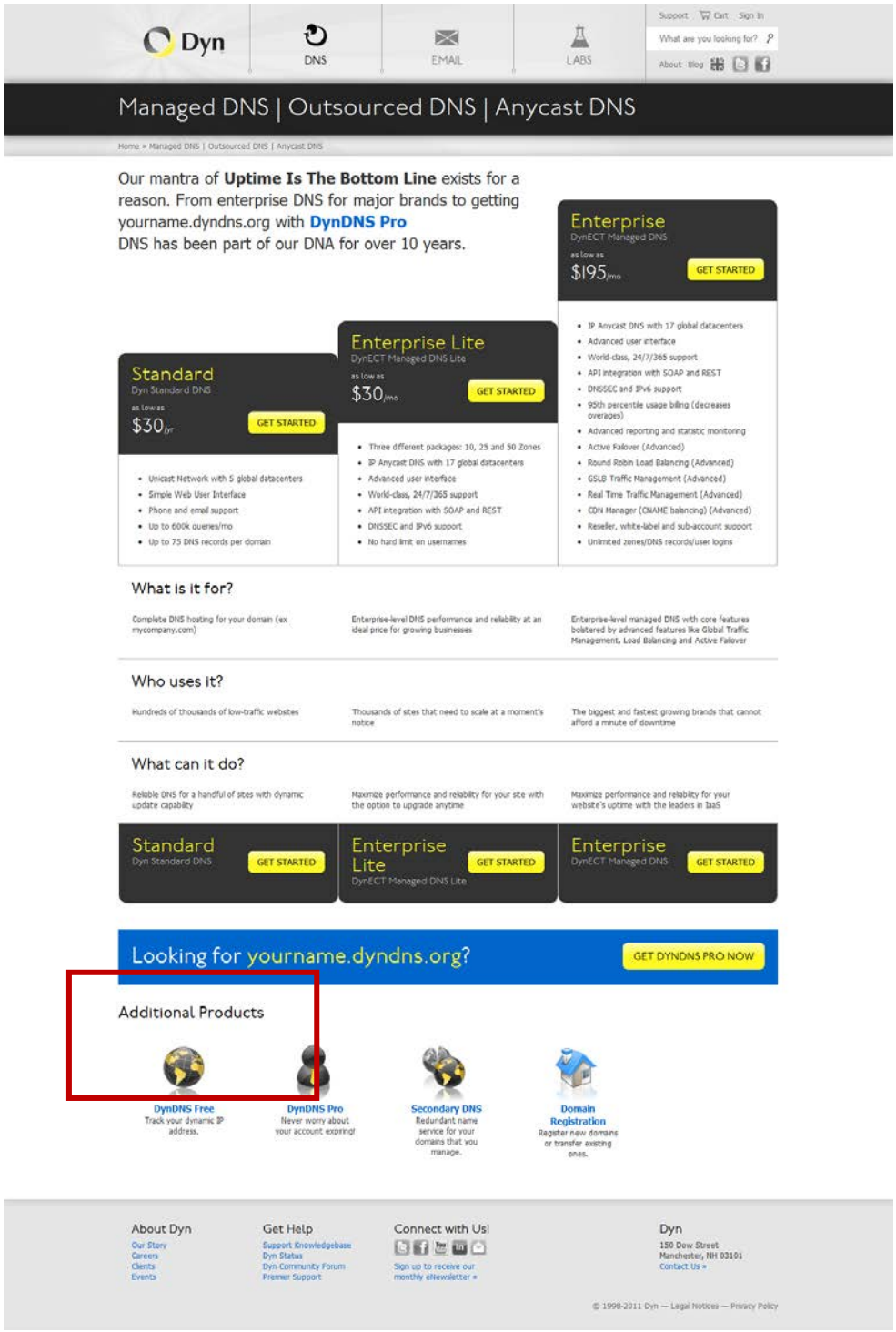
④The host name you applied in the DDNS service provider. *For example, xxxx.dyndns.org or xxxx.cctvdvr.com.tw*

⑤Username: the username you used for DDNS service.

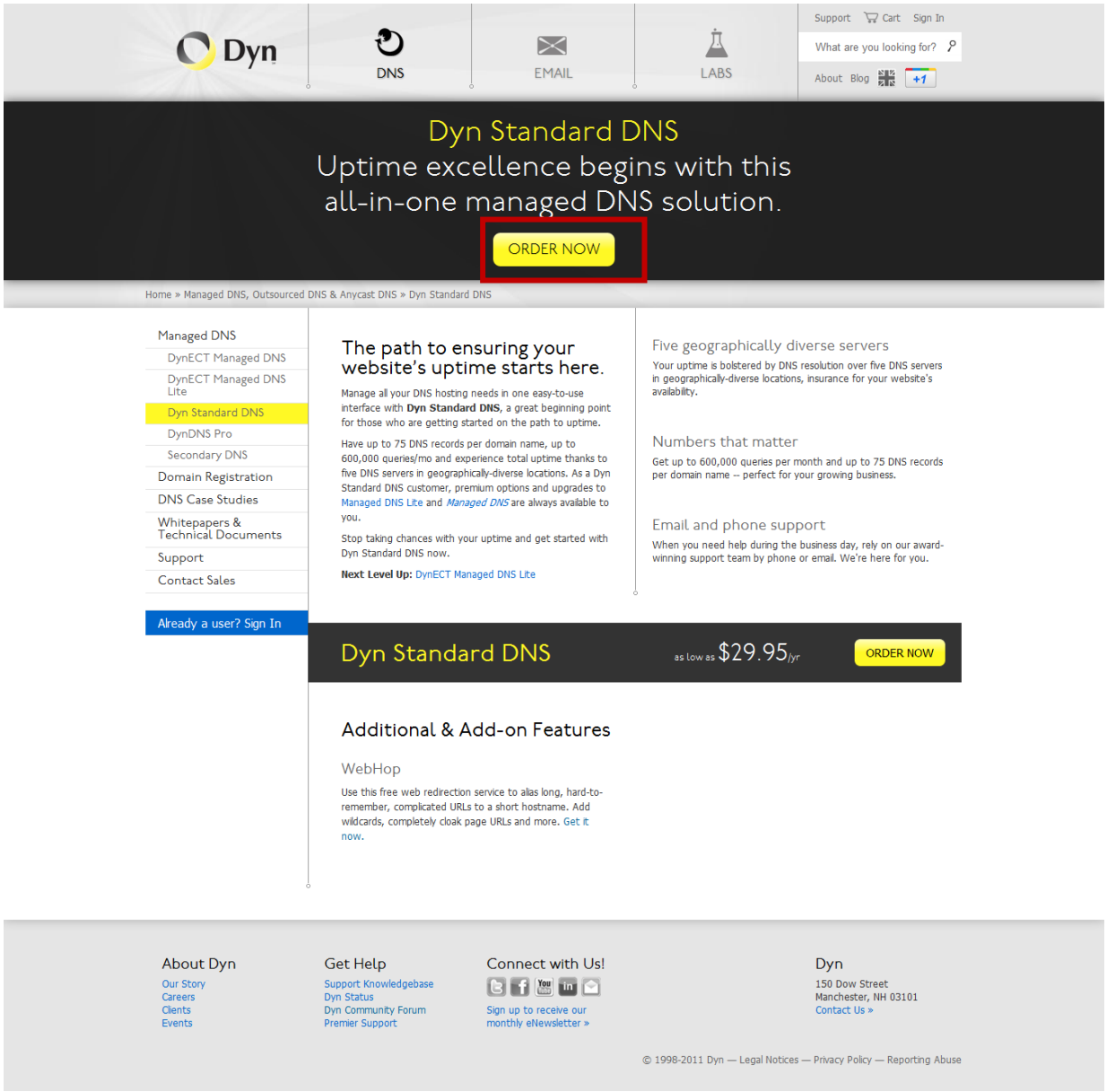
⑥Password: password you used for DDNS service

Below we will explain how to apply a DDNS service through Dyndns

1. Go to http://www.dyndns.com
2. Click on Dyndns standard to apply a dyndns account


Dyn
DNS
EMAIL
LABS
Managed DNS | Outsourced DNS | Anycast DNS
Our mantra of Uptime Is The Bottom Line exists for a reason. From enterprise DNS for major brands to getting yourname.dyndns.org with DynDNS Pro DNS has been part of our DNA for over 10 years.
Standard
Enterprise Lite
Enterprise
What is it for?
Who uses it?
What can it do?
Looking for yourname.dyndns.org?
GET DYNDNS PRO NOW
Additional Products
DynDNS Free
DynDNS Pro
Secondary DNS
Domain Registration

3. Press on “ORDER NOW” to start applying


Dyn
DNS
EMAIL
LABS
Support
Cart
Sign In
What are you looking for?
About
Blog
+1
Dyn Standard DNS
Uptime excellence begins with this all-in-one managed DNS solution.
ORDER NOW
Home » Managed DNS, Outsourced DNS & Anycast DNS » Dyn Standard DNS
Managed DNS
DynECT Managed DNS
DynECT Managed DNS Lite
Dyn Standard DNS
DynDNS Pro
Secondary DNS
Domain Registration
DNS Case Studies
Whitepapers & Technical Documents
Support
Contact Sales
Already a user? Sign In
The path to ensuring your website's uptime starts here.
Manage all your DNS hosting needs in one easy-to-use interface with Dyn Standard DNS, a great beginning point for those who are getting started on the path to uptime.
Have up to 75 DNS records per domain name, up to 600,000 queries/mo and experience total uptime thanks to five DNS servers in geographically-diverse locations. As a Dyn Standard DNS customer, premium options and upgrades to Managed DNS Lite and Managed DNS are always available to you.
Stop taking chances with your uptime and get started with Dyn Standard DNS now.
Next Level Up: DynECT Managed DNS Lite
Five geographically diverse servers
Your uptime is bolstered by DNS resolution over five DNS servers in geographically-diverse locations, insurance for your website's availability.
Numbers that matter
Get up to 600,000 queries per month and up to 75 DNS records per domain name -- perfect for your growing business.
Email and phone support
When you need help during the business day, rely on our award-winning support team by phone or email. We're here for you.
Dyn Standard DNS
as low as $29.95/yr
ORDER NOW
Additional & Add-on Features
WebHop
Use this free web redirection service to alias long, hard-to-remember, complicated URLs to a short hostname. Add wildcards, completely cloak page URLs and more. Get it now.
About Dyn
Our Story
Careers
Clients
Events
Get Help
Support Knowledgebase
Dyn Status
Dyn Community Forum
Premier Support
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Dyn
150 Dow Street
Manchester, NH 03101
Contact Us »
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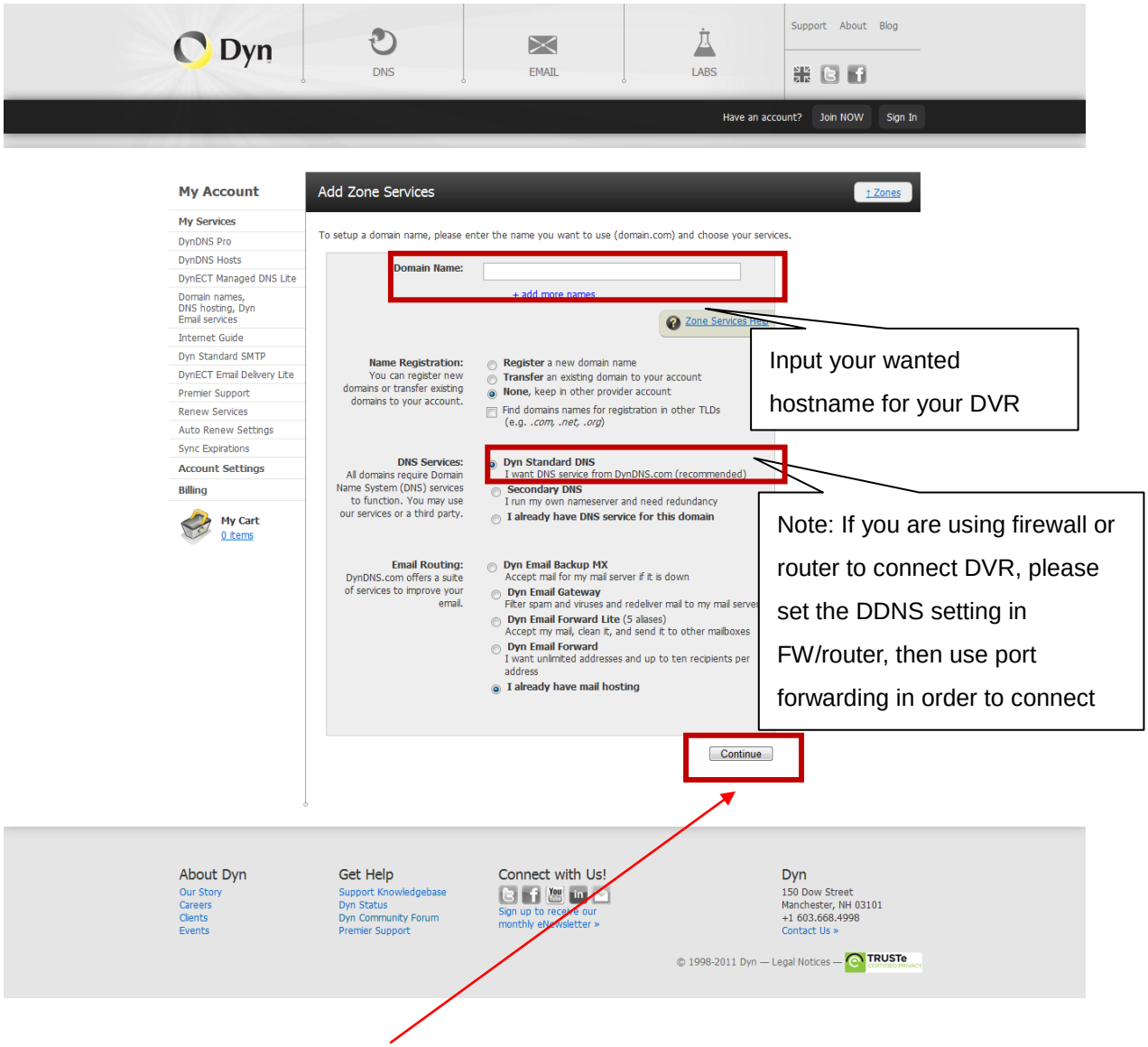
4. Select your wanted Hostname for your DVR


Dyn
DNS
EMAIL
LABS
Support About Blog
Have an account? Join NOW Sign In
My Account
My Services
DynDNS Pro
DynDNS Hosts
DynECT Managed DNS Lite
Domain names, DNS hosting, Dyn Email services
Internet Guide
Dyn Standard SMTP
DynECT Email Delivery Lite
Premier Support
Renew Services
Auto Renew Settings
Sync Expirations
Account Settings
Billing
My Cart
0 items
Add Zone Services
↑ Zones
To setup a domain name, please enter the name you want to use (domain.com) and choose your services.
Domain Name:
+ add more names
Zone Services Help
Name Registration:
You can register new domains or transfer existing domains to your account.
Register a new domain name
Transfer an existing domain to your account
None, keep in other provider account
Find domains names for registration in other TLDs (e.g. .com, .net, .org)
DNS Services:
All domains require Domain Name System (DNS) services to function. You may use our services or a third party.
Dyn Standard DNS
I want DNS service from DynDNS.com (recommended)
Secondary DNS
I run my own nameserver and need redundancy
I already have DNS service for this domain
Email Routing:
DynDNS.com offers a suite of services to improve your email.
Dyn Email Backup MX
Accept mail for my mail server if it is down
Dyn Email Gateway
Filter spam and viruses and redeliver mail to my mail server
Dyn Email Forward Lite (5 aliases)
Accept my mail, clean it, and send it to other mailboxes
Dyn Email Forward
I want unlimited addresses and up to ten recipients per address
I already have mail hosting
Continue
Input your wanted hostname for your DVR
Note: If you are using firewall or router to connect DVR, please set the DDNS setting in FW/router, then use port forwarding in order to connect
About Dyn
Our Story
Careers
Clients
Events
Get Help
Support Knowledgebase
Dyn Status
Dyn Community Forum
Premier Support
Connect with Us!
Sign up to receive our monthly eNewsletter »
Dyn
150 Dow Street
Manchester, NH 03101
+1 603.668.4998
Contact Us »
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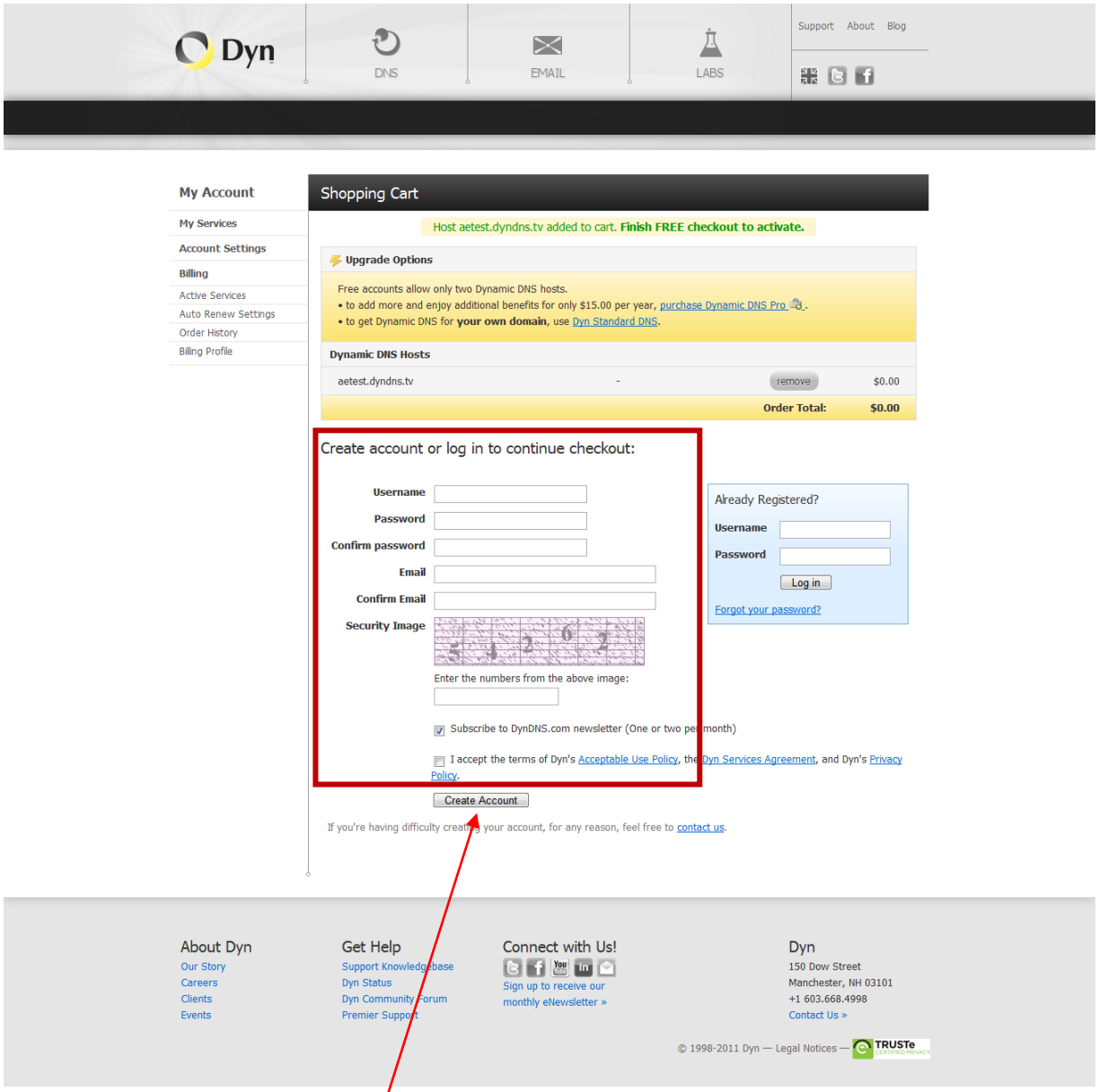
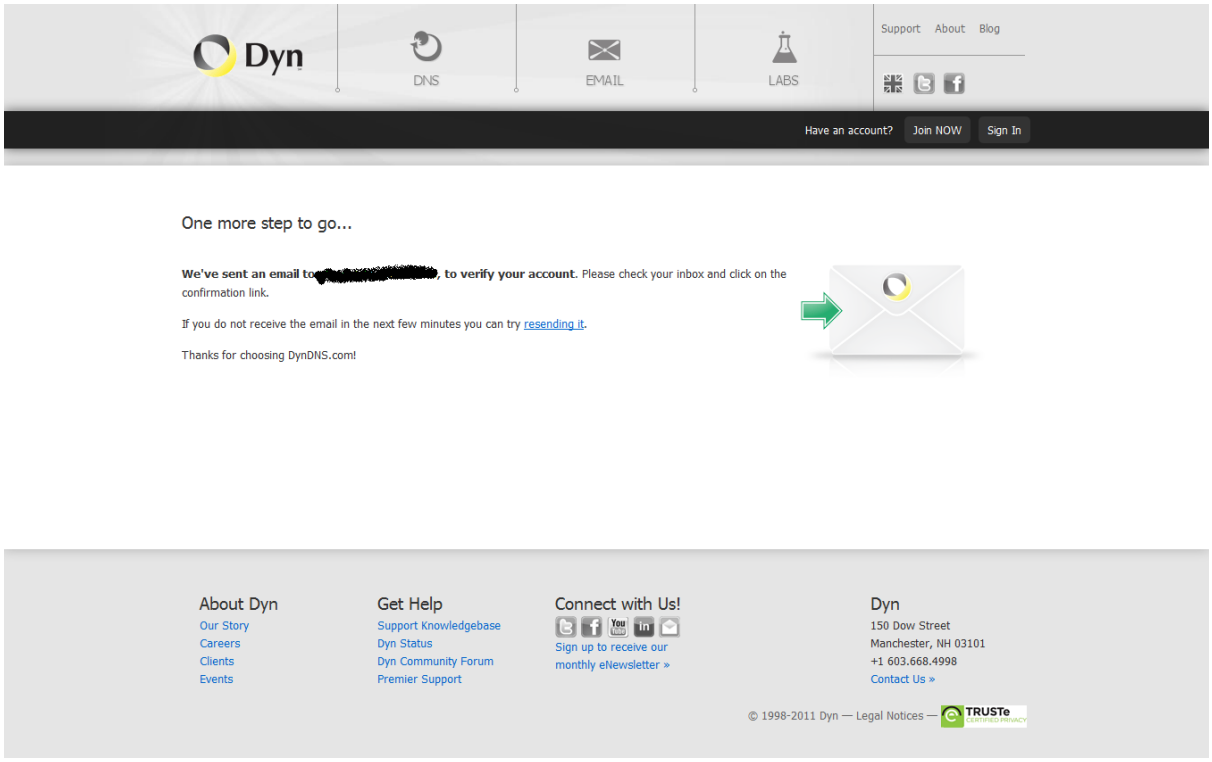
5. When finished, press “Continue” to proceed.

6. If you have never applied Dyndns service before, please create a new account first.

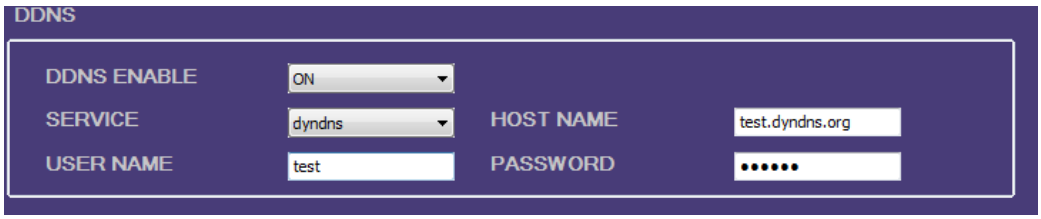


7. When finished, press “create account” to proceed.

8. System will send you an email for confirmation. Please go to your email box and see if you have received it. There will be a link for you to confirm the application.



9. Go to your DVR to set the DDNS setting. (I use IE for demonstration but in the DVR OSD, you can find the same setting there).



1) Enable your DDNS service.
2) Choose the service to be “dyndns” (depending upon which DDNS provider you use)
3) Input the hostname for the DDNS. (e.g: test.dyndns.org)
4) Input the username for the DDNS. (e.g:test@gmail.com)
   NOTE: You might only need to input “test” instead of “test@gmail.com” depending upon which service provider you use.
5) Input the password for the DDNS

Then you can start using the DDNS service for your DVR

13. Default Setting

Item		Default Setting	Item		Default Setting
Record Setup	Channel	On	**HDD Setup**	Overwrite	Yes
	Resolution	Normal		Pack Time	60 Mins
	Frame Rate	Real-time	**Time Setup**	Date Format	YY/MM/DD
	Quality	Highest		Time Format	24 Hours
	Audio	Disable		Time Zone	GMT+08:00
	Schedule	Always		Daylight Saving	Off
Camera Setup	Channel 1	CH1	**XGA/Audio Setup**	XGA Resolution	800 X 600
	Channel 2	CH2		Output Volume	5
	Channel 3	CH3		Input Volume	5
	Channel 4	CH4	**Alarm Setup**	Mode	On
	Title Position	Top Left		HDD Loss	On
	Display	On		HDD NO SPACE	On
	Display Time	On		Video Loss	On
	Switching Time	1 sec.		Alarm Output	1 sec.
Camera Color Setup	Hue	25		Post REC	10 sec.
	Brightness	25		Buzzer	1 sec.
	Contrast	25	**E-MAIL Setup**	E-MAIL	Off
	Saturation	25	**System Maintenance**	Maintenance Schedule Setup	Off
Motion Detection	Channel Status	Off	**PTZ**	Type	Off
	Sensitivity	5		Protocol	Off
Network Setup	Mode	Static IP		Address	001
	Media Port	09000		Baud Rate	9600
	Web Port	00080		Tour Time	Off
	IP Address	192.168.000.100		Tilt Opposite	Off
	NetMask	255.255.255.0			
	Gateway	192.168.000.001			
	DNS	168.095.001.001			
DDNS Setup	DDNS	Off			

14. HDD Support List

Suggest to install the Hard Driver listed below to make sure the compatibility.

Brand	Model Number	Capacity
SEAGATE	ST3250310CS	250G
	ST3320410SV	320G
	ST3500418AS	500G
	ST3500312CS	500G
	ST3750528AS	750G
	ST31000424CS	1T
	ST31500541AS	1.5T
	ST32000542AS	2T
HITACHI	HCT721025SLA380	250G
	HCT721032SLA380	320G
	HCP725050GLA380	500G
	HCT721010SLA360	1T
	HDHCT721010LAS360	1T
WD	WD3200AVVS	320G
	WD3200AAKS	320G
	WD5000AVVS	500G
	WD5000AAKX	500G
	WD10EURS	1T
	WD10EVDS	1T
	WD10EVVS	1T
	WD15EARS	1.5T
	WD20EARS	2T
	WD2001FASS	2T
SAMSUNG	HD502HJ	500GB

15. Operation System For Mobile Phone Application

O/S	Version	Mobile Phone Software
Android	2.1, 2.2, 2.3	Castillo Player+.apk
iPhone	3.x, 4.x	CastilloPlayer+
WinMobile	6.5.x	CastilloPlayer_5.0.3.CAB
Symbian	S60 v3 above	CastilloPlayer_5.1.713.sisx
BlackBerry	Support RTSP Protocol	None

16. 3G Data Rate

Brand	Model	Data Transfer Speed (bps)			Support	Verified
		WCDMA (3G) 2Mbps ~ 386kbps	HSDPA (WCDMA 3.5G)	HSUPA (WCDMA 3.75G)		
Huawei	E1550	-	3.6M	384k	Yes	Pass
	E160G	-	3.6M	384k	Yes	Pass
	E1750	-	7.2M	5.76M	Yes	Pass
	E220	-	3.6M	384k	Yes	Pass
	E156G	-	3.6M	384k	Yes	Pass
	E173	-	7.2M	5.76M	Yes	Pass
	E1820	-	21.6M	5.76M	Yes	Pass
ZTE	MF626	-	3.6M	384k	Yes	Pass
	MF627	-	3.6M	384k	Yes	Pass
	MF631	-	7.2M	5.76M	Yes	Pass
	MF637	-	7.2M	5.76M	Yes	Pass
	MF112	-	7.2M	2M	Yes	Pass
	MF180	-	3.6M	384k	Yes	Pass

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